II B.Tech– II Sem (MR 18-2018-19 Admitted Students) I Mid Examination Subjective Question Bank

Subject: Database Management Systems

Branch(s): CSE / IT

Instructions:

1. All the questions carry equal marks

2. Solve all the questions

Module IUnderstanding11.Explain various Data Base Languages with syntax and example.Understanding1OR2.Explain advantages and disadvantages of DBMS over File SystemUnderstanding1Inderstanding1ORUnderstanding1ORUnderstanding1ORORUnderstanding1Inderstanding1ORORUnderstanding1Inderstanding1ORORORORORInderstandingInderstandingInderstandingInderstandingInderstandingInderstandingInderstandingInderstandingInderstandingInderstandingInderstandingInderstandingInderstandingInderstandingInderstandingInderstandingInderstandingInderstandingInderstandingInderstandingInderstandingInderstandingInderstanding <th>Q.No.</th> <th>Question</th> <th>Bloom's Taxonomy Level</th> <th>со</th>	Q.No.	Question	Bloom's Taxonomy Level	со
Image: Construct of the second sec		Module I	1	
2. Explain advantages and disadvantages of DBMS over File System Understanding 1 3. Illustrate Database System Structure with a neat sketch? Understanding 1 3. Explain different types of database users and write the functions of DBA? Understanding 1 4. Explain different types of database users and write the functions of DBA? Understanding 1 5. Construct an ER Diagram for Banking Enterprise System? Applying 1 6. Build an University ER diagram and convert it into a relational schema Applying 1 7. Explain the structure of RDBMS with a neat sketch? Understanding 1 8. What is a data model? Explain in detail about different data models used in database management systems? Understanding 1 1. Discuss about different operations in relational algebra with example. Creating 2 OR	1.	Explain various Data Base Languages with syntax and example.	Understanding	1
2. Product of the structure of the structure with a neat sketch? Understanding 1 3. Illustrate Database System Structure with a neat sketch? Understanding 1 4. Explain different types of database users and write the functions of DBA? Understanding 1 5. Construct an ER Diagram for Banking Enterprise System? Applying 1 6. Build an University ER diagram and convert it into a relational schema Applying 1 7. Explain the structure of RDBMS with a neat sketch? Understanding 1 8. What is a data model? Explain in detail about different data models used in database management systems? Understanding 1 1. Discuss about different operations in relational algebra with example. Creating 2		OR	1	
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4. Explain different types of database users and write the functions of DBA? Understanding 1 5. Construct an ER Diagram for Banking Enterprise System? Applying 1 6. Build an University ER diagram and convert it into a relational schema Applying 1 7. Explain the structure of RDBMS with a neat sketch? Understanding 1 8. What is a data model? Explain in detail about different data models used in database management systems? Understanding 1 1. Discuss about different operations in relational algebra with example. Creating 2	3.	Illustrate Database System Structure with a neat sketch?	Understanding	1
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6. schema Apprying 1 Apprying 1 7. Explain the structure of RDBMS with a neat sketch? Understanding 1 OR 8. What is a data model? Explain in detail about different data models used in database management systems? Understanding 1 Module II 1. Discuss about different operations in relational algebra with example. Creating 2 OR		OR	·	
7. 1 Onconstanting 1 OR 8. What is a data model? Explain in detail about different data models used in database management systems? Understanding 1 8. Module II Image: Module II <td>6.</td> <td></td> <td>Applying</td> <td>1</td>	6.		Applying	1
7. 1 Onconstanting 1 OR 8. What is a data model? Explain in detail about different data models used in database management systems? Understanding 1 8. Module II Image: Module II <td></td> <td></td> <td>I</td> <td></td>			I	
8. What is a data model? Explain in detail about different data models used in database management systems? Understanding 1 Module II 1. Discuss about different operations in relational algebra with example. Creating 2 OR	7.	Explain the structure of RDBMS with a neat sketch?	Understanding	1
8. used in database management systems? Understanding 1 Module II 1. Discuss about different operations in relational algebra with example. Creating 2 OR		OR		
1. Discuss about different operations in relational algebra with example. Creating 2 OR	8.	=	Understanding	1
1. Discuss about different operations in relational algebra with example. Creating 2 OR				
OR		Module II		
	1.	Discuss about different operations in relational algebra with example.	Creating	2
		OR	I	<u> </u>
	2.		Creating	2
			I	I

3.	Discuss about Nested queries with an example.	Creating	2
	OR		
4.	Discuss about different types of aggregate operators in SQL with examples?	Creating	2
	·		•
	Classify different join operations (Relational Algebra & SQL) and		
5.	explain with example.	Understanding	2
	OR		
6.	Explain Active Databases and designing Active Databases with suitable example.	Understanding	2
			_
7.	Discuss about views with suitable example.	Creating	2
	OR		
8.	Discuss about trigger with syntax and example.	Creating	2
	Module III	•	
1.	Summarize key terms and Rules for functional dependency.	Understanding	3
	OR		•
2.	Demonstrate functional dependencies. How are primary keys related to FD's?	Understanding	3
	1	1	1
3.	Classify different Types of Functional Dependencies.	Understanding	3
	OR		
4.	Explain about schema refinement.	Understanding	3
			•

II B.Tech– II Sem (MR 18-2018-19 Admitted Students) I Mid Examination Objective Question Bank

Subject	t: Database Management Systems Branch(s): CSH	E / IT	
Ŭ	Objective Questions:		
1 DBM	S is a collection ofthat enables user to create and maintain a database.	[]
a)	Keys		
b)	Translators		
	Program		
	Language activity	F	
	elational schema, each tuple is divided into fields called	[]
a)	Relations		
b)	Domains		
c)	Queries		
d) 2 In an	All the above	г	1
	ER model, is described in the database by storing its data	[1
a) b)	Entity Attribute		
,	Relation ship		
	Notation		
	h of the following are the properties of entities?	г	1
a)	Groups	L	1
,	Table		
c)	Attributes		
d)	schema		
5	defines the structure of a relation which consists of a fixed set of attribute-domain pairs	[]
3 <u> </u>	Instance	L	1
a) b)	Schema		
c)	Program		
d)	Super key		
6	is a full form of SQL	[]
a)	Standard query language	L	1
u) b)	Sequential query language		
c)	Structured query language		
d)	Server query language		
,	ational database developer refers to a record as	[1
a)	A criteria	L	1
	A relation		
c)	A tuple		
	An attribute		
	ollection of information stored in a database at a particular moment is called as	[1
		L	1
a)	Schema		
b)	Instance of data base		
c)			
d)	Independent		
	is used to define overall design of database]	1
a)	Schema		
b)	Application program		
c)	Data definition language		
d)			
10 DBN	MS helps achieve	[]
a)	Data independence		
b)	Centralized control of data		
,	Neither A or B		
	Both A and B		
11 A da	atabase Management System is	[]
a)	Collection of interrelated data		
b)	Collection of programs to access data		
c)	Collection of data describes one particular enterprise		

	All the above	-	
	ch of the following is not a level of data abstraction?	L]
a) b)	Physical level Critical level		
b) c)	Logical level		
d)	View level		
,	dvantages of file system to store data is	[1
	Data redundancy and inconsistency	L	L
	Difficulty in accessing data		
c)	Data Isolation		
d)	All the above		
14 In ar	entity-relationship diagram rectangles represents	[]
a)	Entity sets		
b)	Attributes		
c)	Data base		
d)	Tables		
	manipulation language enables users to	[]
,	Retrieval of information stored in data base		
,	Insertion of new information into the database		
	Deletion of information form data base		
,	All the above	-	
、 、	ch of the following is not a schema?	[]
a)	Data base schema		
	Physical schema		
c)	Critical schema		
	Logical schema	r	1
、 、	ch of the following is data base language	L]
a) b)	Data definition language		
	Data manipulation language Query language		
c) d)	All the above		
	ch of the following is a data model	ſ	1
	Entity-relationship model	L	1
	Relational data model		
c)	Object-based data model		
d)	All the above		
	attribute that can be divided into other attributes is called	[1
a)	Simple attribute	L	
b)	Composite attribute		
c)	Multi-valued attribute		
d)	Derived attribute		
20 In ar	n Entity-relationship diagram "Ellipses" represents	[]
a)	Attributes		
b)	Weak entity set		
c)	Relationship sets		
	Multi-valued attributes		
21 In ar	n Entity-relationship diagram "diamonds" represents	[]
a)	Attributes		
b)	Multi-valued attributes		
	Weak entity set		
	Relationship sets	r	1
、 、	of the following is a valid record-based data model	L]
a)	Object-oriented model		
	Relational model		
	Entity-relationship model None of the above		
,	level of data abstraction which describes how the data is actually stored is	ſ	1
25 me	Conceptual level	L	1
	Physical level		
c)	Logical level		
d)	External Level		
	ta model is :	[1
a)	Used to describe structure of a database	L	L
b)	Set of basic operations on database		

c) Both A and B

d)	None of these		
25 DBA	stands for	[]
a)	Data Basic Access		
b)	Data Base Access		
c)	Data Bank Administration		
d)	Data Base Administrator		
26 Whic	ch database level is closest to the users?	[]
a)	External		
b)	Internal		
c)	Physical		
d)	Conceptual		
27 A sch	nema describes	[]
a)	Record relationship		
b)	Data elements		
c)	Record and files		
	All the above		
	bstraction concept for building composite object from their component object is called:	ſ	1
a)	Specialization	L	L
	Normalization		
c)	Generalization		
	Aggregation		
	ager's salary details are hidden from the employee. This is	r	1
a)	Conceptual level data hiding	L	1
,			
	Physical level data hiding		
c)	External level data hiding		
	None of these	г	Ъ
,	h one is lowest level data model?	L]
a)	Physical data model		
	Logical data model		
	External data model		
,	None of these	-	-
31 Data	items grouped together for storage purposes are called a	[]
a)	Record		
b)	Title		
c)	List		
d)	String		
32 The c	conceptual model is	[]
a)	dependent on hardware.		
b)	dependent on software.		
c)	dependent on both hardware and software.		
d)	independent of both hardware and software.		
	ssociation between students and courses is:	[1
a)	1:1 relationship	L	-
	1:M relationship		
	M:M relationship		
,	None of these		
,	ew of a database that appears to an application program is known as:	[]
a)	Schema	L	1
u) b)	Subschema		
c)	Virtual table		
	None of these		
,		r	ı
	set of all possible values of data items is called:	L]
	Domain		
b)	Attribute		
c)	Tuples		
	None of these	r	-
36	is a property that describes various characteristics of an entity	L]
a)	ER diagram		
b)	Column		
c)	Relationship		
d)	Attribute		
37	level describes what data is stored in the database and the relationships among the data	[]
a)	Physical level		
b)	Logical level		

c) Conceptual level

d)	None of the above		
38	denote derived attributes	[]
a)	Double ellipse		
b)	Dashed ellipse		
c)	Square ellipse		
	Ellipse with attribute name underlined		
39 A	is an association between entities	[]
a)	Relation		
b)	One to one		
c)	Generalization		
d)	Specialization		
40 In w	hich of the following is a single-entity instance of one type related to many entity instance of another type	[]
a)	One to one relationship		
b)	One to many relationship		
	Many to many relationship		
	Composite relationship		
	dvantage of the data base management approach is	ſ	1
	Data is dependent on programs	L	-
	Data redundancy increases		
	Data is integrated and can be accessed by multiple programs		
	None of the above		
	lational database developer refers to a record as	r	1
	A criteria	L	1
a) b)			
b)	A relation		
c)	A tuple		
d)	An attribute	r	1
	independence means	L]
	Data is defined separately and not included in programs		
	Programs are not dependent on the physical attributes of data		
	Programs are not dependent on the logical attributes of data		
,	Both B and C	_	_
44 ER –	model uses this symbol to represent weak entity set	[]
a)	Dotted rectangle		
b)	Diamond		
c)	Doubly outlined rectangle		
d)	None of these		
45 DBN	IS helps in achieving	[]
a)	Data independence		
b)	Centralized control of data		
c)	Neither A nor B		
,	Both A or B		
	t is a relationship called when it is maintained between two entities	[1
a)		L	1
,	Binary		
	Ternary		
	Quaternary		
	t of possible data values is called	r	1
· · · ·	Attribute	L	1
a)			
	Degree		
	Tuple		
,	Domain	r	
48 Whic	ch are the two ways in which entities can participate in a relationship?	l]
a)	Passive and active		
b)	Total and partial		
c)	Simple and complex		
	All the above		
49 In El	R-diagram generalization is represented by	[]
a)	Ellipse		
	Dashed ellipse		
c)	Rectangle		
d)	Triangle		
	e relational model, the number of attributes and number of types in a relation are termed as and		
	respectively	ſ	1
a)	Cardinality, domain		г
	Degree , cardinality		
2,			

		Domain, degree		
		Cardinality, degree		
51	In	the unmatched rows of second table are listed along with the common rows of both the tables.	[]
		Left outer join		
		Right outer join		
	,	Full outer join		
		Half outer join	-	
52	``	keywords RESTRICT/CASCADE must always be used with	[1
	a)	Create		
	b)	Drop		
		Alter		
		Delete	r	1
55		of query processing is directly proportional to	[]
		Number of disk access		
		Number of cpu access		
		Memory space Total number of records		
51	,	y inside a query is known as	г	1
54			[]
		Nested query		
		Interrelated query		
	d)	Query optimizer		
55		operators merge the result set of two different queries into a single result set	[]
55	a)	sperators merge the result set of two unreferit queries into a single result set	L	1
		Aggregate		
		Comparison		
		Collation		
56		Operator returns a result set that doesn't contain any duplicate rows	[]
		EXCEPT	L	1
	,	INTERSECT		
	c)	UNION ALL		
	d)	UNION		
57		Operator returns a value if an element is in given set, otherwise returns a value false	[]
	a)	EXISTS		
	b)	ALL		
	c)	IN		
	d)	ANY		
58		operator followed by a column name returns the average value of all the values in the specified column	[]
	a)	COUNT		
	b)	SUM		
	c)	MAX		
	d)	AVG		
59		operator removes duplicate rows from the final result set	[]
	a)	EXCEPT		
	b)	EXCEPT ALL		
	c)	INTERSECT		
		INTERSECT[DISTINC]		
60		uses equity operator to join the two relations	[]
		Equi-join		
		Outer join		
		Natural join		
		Full join	-	
61		possible to define a schema completely using	[]
	a)	VDL and DDL		
		DDL and DML		
	c)	SDL and DDL		
<i>c</i> ~	· · ·	VDL and DML	r	•
62	`	sian product in relational algebra is	L]
	a)	a Unary operator		
	b)	a Binary operator		
	c)	a Ternary operator		
c٦	,	not defined	r	ı
03		, is provided for Description of logical structure of database	[l
	a)	Description of logical structure of database.		

b) Addition of new structures in the database system.

	c)	Manipulation & processing of database. system		
	d)	Definition of physical structure of database		
64	'AS	' clause is used in SQL for	[]
	a)	Selection operation.		
	b)	Rename operation		
	c)	Join operation.		
	d)	Projection operation.		
65	Arch	nitecture of the database can be viewed as	[]
	a)	two levels		
	b)	four levels		
	c)	three levels		
	d)	One level		
66	Ina	relational model, relations are termed as	[1
	a)	Tuples	L	1
	b)	Attributes		
	c)	Tables		
		rows		
67		database schema is written in	ſ	1
07	a)	DCL	L	1
	b)	DDL		
	c)	HLL		
	d)	DML		
68		imary key is combined with a foreign key creates	r	1
00	-	Parent-Child relationship between the tables that connect them	L	1
	a) b)			
	b)	Many to many relationship between the tables that connect them		
		Network model between the tables that connect them		
<u> </u>		None of the above	r	1
69		nt function in SQL returns the number of	L]
	a)	Values		
	b)	Distinct values		
	c)	Groups		
	d)	Columns	_	_
70	The	statement in SQL which allows to change the definition of a table is	l]
	a)	Alter		
	b)	Update		
	c)	Create		
	d)	select		
71		is a change to the database that activates the trigger	[]
	a)	Event		
	b)	Condition		
	c)	Action		
	d)	Assertion		
72		is a query or test that is run when the trigger is activated	[]
	a)	Event		
	b)	Condition		
	c)	Action		
	d)	Assertion		
73		ch of the following is not a part of a trigger description	[1
	a)	Event	-	-
	b)	Condition		
		Action		
		Assertion		
74		gger description contains parts	ſ	1
<i>,</i> ,	a)	2	L	1
	b)	3		
	c)	4		
	d)	5		
75		tabase that has a set of associated triggers is called an	r	1
15	``	Active database	L	1
	a) b)	Passive database		
		Data warehouse		
76		Associated database clause is used for row-level triggers.	г	r
10		FOR EACH ROW	L	1
	b)	FOR ROW		

c)	EACH ROW		
d)	ROW		
77 i	is a procedure that is executed when the trigger is activated and it's condition is TRUE.	[]
a)	Event		
b)	Condition		
c)	Action		
	Assertion	_	_
	is used for	[]
	Data processing in batch mode		
	Query for relational databases		
	Dtp work		
	Command line arguments		
	, keywords are used to refer to the values before and after modification	l]
,	Before, After		
	Old, New		
c)	Older, Newer		
	Before, After	r	1
	ch command is not used in DDL	[]
	DROP		
,	REVOKE		
,	ROLLBACK		
	COMMENT	r	1
	ch command is not used in DCL.	L]
a)	COMMIT		
b)	GRANT		
(*	ROLLBACK		
d)	SET TRANSACTION	r	1
82	keyword is used to associate a default value with a domain DEFAULT	L	1
b)	ANY		
c) d)	UNKNOWN ALL		
		г	1
	CK clause is used for constraints over Two tables only	L]
	single table only		
b) c)	Three tables only		
,	Four tables only		
	QL command we can use to sort the table.	ſ	1
a)	Group by clause	L	1
,	having clause		
c)	order by clause		
	where clause		
	straints not associated with any one table are called as	[]
	Associations	L	1
,	Assertions		
,	Assistants		
,	Associated conditions		
· · ·	is relationally	[]
a)	Complete language	L	1
	Incomplete language		
	Cant handle certain relations		
,	Sound language		
	provides special comparison operator to test whether a column value is null.	[]
a)	ARE NULL	L	1
	NULL		
c)	IS NULL		
d)	NOTNULL		
,	n a column value is unknown or inapplicable, then it is treated as in SQL	[]
a)	Null	-	-
b)	Zero		
c)	1		
d)	Any value		
,	number of unique values in the column A can be obtained by	[]
a)	COUNT ([A])	-	-
b)	COUNT (A)		

	COUNT ([UNIQUE] A) COUNT([DISTINCT] A)		
	X (A) aggregate operator gives	r	1
	Maximum value in column A	[]
,	Maximum value in row A		
,	Maximum value in row A and column A		
,	Maximum of table A		
	can disallow null values by specifying as part of the field definition.	[1
)1 wev a)		L	1
a) b)	NOTNULL		
c)	! NULL		
d)	!= NULL		
- /	SQL, how do you select all the records from a table named "Persons" where the value of the column "FirstN	Iomo" io	
"Peter"?		r r	1
a)		L]
b)			
c) d)	SELECT * FROM Persons WHERE FirstName LIKE 'Peter'.		
d) 02 The		r	1
	statement is used to add or drop columns in an existing table. DROP TABLE	[]
	DELETE TABLE		
c)	INSERT TABLE		
d)	ALTER TABLE	r	
	ch SQL statements used to update the data from databases?	[]
a)	Save		
	Update		
c)			
d)	Save as	_	_
	QL command we can use to sort the table.	[]
	Group by clause		
b)	Having clause		
c)	Order by clause		
d)	Where clause		
96 A	enter a serie de la construction de		
<i>70 m</i>	is a query that has another query embedded within it.	[]
	is a query that has another query embedded within it. Nested query	[]
a)		[]
a)	Nested query	[]
a) b) c)	Nested query Relational query	[]
a) b) c) d)	Nested query Relational query Multi dimensional query Algebraic query]
a) b) c) d) 97 Emp	Nested query Relational query Multi dimensional query		
a) b) c) d) 97 Emp	Nested query Relational query Multi dimensional query Algebraic query loyee (fname, minit, lname, ssn, bdate, address, sex, salary, superssn, dno) SQL query to retrieve the names ees who do not have supervisors?]
a) b) c) d) 97 Emp employ	Nested query Relational query Multi dimensional query Algebraic query bloyee (fname, minit, lname, ssn, bdate, address, sex, salary, superssn, dno) SQL query to retrieve the names ees who do not have supervisors? SELECT fname,lname FROM Employee WHERE superssn=0.		-
a) b) c) d) 97 Emp employa a)	Nested query Relational query Multi dimensional query Algebraic query oloyee (fname, minit, lname, ssn, bdate, address, sex, salary, superssn, dno) SQL query to retrieve the names ees who do not have supervisors? SELECT fname,lname FROM Employee WHERE superssn=0. SELECT fname,lname FROM Employee WHERE superssn=NULL.		
a) b) c) d) 97 Emp employa a) b)	Nested query Relational query Multi dimensional query Algebraic query oloyee (fname, minit, lname, ssn, bdate, address, sex, salary, superssn, dno) SQL query to retrieve the names ees who do not have supervisors? SELECT fname,lname FROM Employee WHERE superssn=0. SELECT fname,lname FROM Employee WHERE superssn=NULL. SELECT fname,lname FROM Employee WHERE superssn=NULL.		-
a) b) c) d) 97 Emp employ a) b) c) d)	Nested query Relational query Multi dimensional query Algebraic query bloyee (fname, minit, lname, ssn, bdate, address, sex, salary, superssn, dno) SQL query to retrieve the names ees who do not have supervisors? SELECT fname,lname FROM Employee WHERE superssn=0. SELECT fname,lname FROM Employee WHERE superssn=NULL. SELECT fname,lname FROM Employee WHERE superssn=NULL. SELECT fname,lname FROM Employee WHERE sn IS NULL.	of all [
a) b) c) d) 97 Emp employe a) b) c) d) 98 Corr	Nested query Relational query Multi dimensional query Algebraic query loyee (fname, minit, lname, ssn, bdate, address, sex, salary, superssn, dno) SQL query to retrieve the names ees who do not have supervisors? SELECT fname,lname FROM Employee WHERE superssn=0. SELECT fname,lname FROM Employee WHERE superssn=NULL. SELECT fname,lname FROM Employee WHERE superssn=NULL. SELECT fname,lname FROM Employee WHERE superssn IS NULL. SELECT fname,lname FROM Employee WHERE superssn IS NULL.		-
a) b) c) d) 97 Emp employo a) b) c) d) 98 Corrr a)	Nested query Relational query Multi dimensional query Algebraic query bloyee (fname, minit, lname, ssn, bdate, address, sex, salary, superssn, dno) SQL query to retrieve the names ees who do not have supervisors? SELECT fname,lname FROM Employee WHERE superssn=0. SELECT fname,lname FROM Employee WHERE superssn=NULL. SELECT fname,lname FROM Employee WHERE superssn IS NULL. selated sub query is a Query evaluated once for the entire parent statement.	of all [
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	a)	Armstrong's Axioms		
	b) c)	Relational Expressions quantifiers		
		Relationships		
103	<i>a</i>)	is a systematic approach of decomposing tables to eliminate data redundancy and undesirable charac	teristics	
like	Inse	ertion, Update and Deletion anomalies		[
	a)	Normalization		
	b)	Transaction		
		Atomicity		
		Durability	r	
104			l]
		Redundancy		
		Functional dependency		
		Decomposition Recoverability		
		left hand side of the functional dependency is called	ſ	1
	a)	determinant	L	1
		dependent		
		closure		
	· ·	None of the above		
106	The	right hand side of the functional dependency is called	[]
	a)	determinant		
		dependent		
		closure		
		None of the above	_	_
		unctional dependency $X \rightarrow Y$ is a relationship between two sets of attributes X and Y of a given table T	[]
	a)	one-to-one		
		many-to-many		
	c) 1	many-to-one		
		None of the above functional dependency (FD) $X \rightarrow Y$ holds, where Y is a subset of X, then it is called	г	1
		Trivial Functional Dependency (FD) $X \rightarrow T$ holds, where T is a subset of X, then it is called Trivial Functional Dependency	L	1
		Non-Trivial Functional Dependency		
		Completely non-trivial Functional Dependency		
		None of the above		
		functional dependency (FD) $X \rightarrow Y$ holds, where Y is not a subset of X, then it is called a	[1
	a)	Trivial Functional Dependency	L	
	b)	Non-Trivial Functional Dependency		
		Completely non-trivial Functional Dependency		
		None of the above		
110	If a	functional dependency (FD) $X \rightarrow Y$ holds, where x intersect $Y = \Phi$, it is said to be a	[]
	a)	Trivial Functional Dependency		
		Non-Trivial Functional Dependency		
		Completely non-trivial Functional Dependency		
		None of the above	r	ı
	a)	rule specifies if alpha is a set of attributes and beta is subset alpha, then alpha holds beta Reflexive rule	L]
		Augmentation rule		
		Transitivity rule		
		Associative rule		
		rule specifies if $a \rightarrow b$ holds and $b \rightarrow c$ holds, then $a \rightarrow c$ also holds	ſ	1
			L	
		Augmentation rule		
	c)	Transitivity rule		
		Associative rule		
113		rule specifies if $a \rightarrow b$ holds and y is attribute set, then $ay \rightarrow by$ also holds	[]
		Reflexive rule		
		Augmentation rule		
	c)	Transitivity rule		
		Associative rule	mation	
		telation with redundancy can be refined by using with smaller relations that contain the same infor out redundancy	mation f	ı
out	wiul	our redundancy	L	1

but without redundancya) Decomposing itb) Updating it

c) Inserting it		
 d) Deleting it 115 Which of the following one is not an example of integrity constraints 	r	1
a) Functional dependency	[]
b) Multivalued dependency		
c) Join dependency		
d) Multilevel dependency		
116 Which of the following one is not caused by redundancy problems	[1
a) Redundant storage	-	-
b) Update anomalies		
c) Insertion anomalies		
d) Multivalued dependency		
117 It may not be possible to store certain information unless some other, unrelated information is stored as well i	called[]
a) Redundant storage		
b) Insertion anomalies		
c) Deletion anomalies		
d) Update anomalies 118 If $Y = Y$ holds where y is care where $Y = Y$ holds then Y	r	1
118 If $X \rightarrow Y$ holds, where y is a set of attributes, and there is some subset V of X such that $V \rightarrow Y$ holds then X is	s a[]
a) Primary keyb) Candidate key		
b) Candidate key c) Super key		
d) Not a key		
$119 \text{ X} \rightarrow \text{Y}$ means	[1
a) X functionally determines Y	L	1
b) Y functionally determines X		
c) X not functionally determines Y		
d) X functionally determines X		
120 It may not be possible to delete certain information without losing some other, unrelated information as well i	s called []
a) Redundant storage		
b) Insertion anomalies		
c) Update anomalies		
d) Deletion anomalies	1 57	
121 The of a set F of functional dependencies is the set of all functional dependencies logically implied	by F[]
a) Closure		
b) Associative		
c) Normalizationd) None of the Above		
122 Which of the following one is an example of a integrity constraints	[1
a) Multilevel dependency	L	1
b) Insertion dependency		
c) Multivalued dependency		
d) Deletion dependency		
123 Which one is a kind of integrity constraint that generalizes the concept of the key	[1
a) Multilevel dependency		
b) Multivalued dependency		
c) Lossless join		
d) Functional dependency		
124 If $X \rightarrow YZ$ then $X \rightarrow Y$, and $X \rightarrow Z$ are called	[]
a) Decomposition		
b) Union		
c) Augmentation		
d) Transitivity 125 Which of the following rule specifies If $\mathbf{X} \to \mathbf{X}$ and $\mathbf{X} \to \mathbf{Z}$ then $\mathbf{X} \to \mathbf{X}\mathbf{Z}$	r	1
125 Which of the following rule specifies, If $X \rightarrow Y$ and $X \rightarrow Z$ then $X \rightarrow YZ$	[]
a) Unionb) Decomposition		
c) Composition		
d) None of the Above		

d) None of the Above

B.Tech– IV Sem (MR 18-2018-19 Admitted Students) I Mid Examination Subjective Question Bank

Subject: Environmental Science Name of the faculty: K USHA RANI Branch /Specialization: CSE/ECE/EEE/IT

Instructions:

- 1. All the questions carry equal marks
- 2. Answer all the questions

Q.No.	Question	Bloom's Taxonomy Level	со
1.	Outline the structure of Ecosystem?	Understanding	1
	OR	I	
2.	Explain Flow of energy through various trophic levels in an ecosystem is unidirectional and noncyclical.	Understanding	1
3.	Compare Detritus food chain with grazing food chain.	Analyzing	1
	OR	I	
4.	Classify different types of ecosystems.	Analyzing	1
		•	
5.	Explain the scope and importance of ecosystem.	Understanding	1
	OR		
6.	Outline the functional features of aquatic ecosystem.	Understanding	1
7.	Construct a food web in any one ecosystem.	Applying	1
	OR	1	
8.	Develop two ecological pyramids basing on number of species and amount of biomass produced.	Applying	1
Modul	e II		
1.	Illustrate in- situ and ex-situ conservation of biodiversity?	Understanding	2
	OR	·	
2.	Classify different types of energy resources with examples?	Understanding	2
		•	•

3.	Construct the flow chart on impacts of mining activities?	Applying	2
	OR		
4.	Identify the values of biodiversity.	Applying	2
5.	Summarize with the help of case study how big dams have affected forests and the tribal.	Understanding	2
	OR	·	
6.	Outline the major threats to biodiversity.	Understanding	2
7.	Discuss aquifers and its types?	Creating	2
	OR		1
8.	Discuss briefly about droughts and floods with respect to their occurrence and impacts.	Creating	2
Mod	ule III		
1.	Summarize all possible methods to Control Air Pollution in the Environment?	Understanding	3
	OR	·	
2.	Compare point sources with non-point sources of pollution.	Understanding	3
3.	Explain the adverse effects and control of water pollution.	Understanding	3
	OR		
4.	Illustrate major sources of surface water pollution and ground water pollution.	Understanding	3
5.	Identify the control methods of automobile and industrial pollution.	Applying	3
	OR		
6.	Identify the sources of primary and secondary pollutants.	Applying	3

Department Of Chemistry II B.TECH II SEM (MR 18) ENVIRONMENTAL SCIENCE (Common to EEE, ECE, CSE & IT) OBJECTIVE QUESTION BANK FOR I MID

MODULE I

]

Multiple Choice Questions:

1. The food r	elation from grass> deer>tiger>decomposer is called]
B) C)	Eco pyramid Food chain Trophic level Energy flow		
2. Pond eco-	system food chain can be represented as:	[]
A) B) C) D)	Grass→ Grasshopper→Lizard→ Eagle Grass→ Mouse→ Snake→ Hawk Phytoplanktons→ Zooplanktons→ Small fish→ Big fish None of the above		
3.Identify the	correct statement about ecosystem?	[]
B)	Primary consumers are least dependent upon producers Primary consumers depend on carnivores Producers are more than primary consumers Secondary consumers are the largest and most powerful		
4.Pyramid of	numbers deals with the number of	[]
B) C)	Species in area Subspecies in a community Individuals in a community Individuals in a tropic level		
5.Food chain	in which microorganisms breakdown the food by primary producers is	[]
B) C)	Detritus food chain Grazing food chain Consumer food chain Predator food chain Always inverted		
6.A consumer is]
B) A C) A	An organism that produce its own food An organism that does not need food for survive An abiotic organism An organism that cannot produce its own food		

7. Ecology deals with the study of	[]	
 A) Living beings B) Living and Non-living components interacting with environment C) Reciprocal relationship between biotic and abiotic components D) Environment 				
8. Feeding levels in food chain are called as:		[]	
A) Production levels				
B) Eltonian pyramids				
C) Food web				
D) Tropical levels				
9. Single channel energy flow model explains the flow of energy through	[]	
A) Grazing food chain				
B) Detritus food chain				
C) Both A& B				
D) None				
10. The interlocking pattern of food chain is called	[]		
A) Food chain				
B) Food web				
C) Ecological pyramid				
D) Energy flow				
MODULE-II				
Multiple Choice Questions:				
1. The value is based on the concept of live & let live called	[]	
A) Social valueB) Option valueC) Ethical valueD) Spiritual value				
 2. A renewable exhaustible natural resource is: A) Petroleum B) Forest C) Coal D) None 		[]	
3. Which of the following types of coal has maximum carbon and calorific value?)	[]	
A) Anthracite				

B) Bituminous			
C) Lignite			
D) Wood coal			
4. The energy harnessed from the hot rocks present inside the earth is called	[]	
A) Geothermal energy			
B) Wind energy			
C) Ocean thermal energy			
D) Tidal energy			
5. Which of the following is critical mineral?	[]	
A) Cobalt			
B) Iron			
C) Chromium			
D) Magnesium			
 6. World environmental day is celebrated on the following day A) November 13th B) July 20th C) June 5th D) April 7th 	I	[]	
7. Land Subsidence occurs due to		[]	
A) Withdrawal of more ground water than its recharge			
B) More recharge of ground water than its withdrawal			
C) Equal rates of recharge and withdrawal			
D) None			
8. Aquifer which are sandwiched between two impermeable layers of rocks or sedi	ment	S	
Called	[]	
A) Unconfined			
B) Confined			
C) Both			
D) None			
9. Identify the effects of over utilization of water resources:		[]
A) Land subsidenceB) Lowering water tableC) Salt water intrusionD) All			
10. When variations occurs within a species due to new combination of genes calle	d	[]

- A) Genetic diversityB) Species diversityC) Eco system diversity
- D) None

Multiple Choice Questions:

MODULE III

1. Example for secondary pollutants is	[]
A) SmogB) PANC) OzoneD) All		
2. Carbon dioxide content in atmosphere	[]
A) 70% B) 0.03% C) 0.5% D) 2%		
3. Oxidation of sulphur in the fossil fuels mainly produces	[]
A) NO ₂ B) SO ₂ C) SO ₃		
D) Both B & C		
4. Separation of heavy inorganic solids is known as	[]
A) SedimentationB) FloatationC) NeutralizationD) None		
5. More BOD in water indicates	[]
A) Poor qualityB) Good qualityC) Maintains qualityD) None		
MODULE I		
Fill in the blanks:		
1. Grazing food chain starts from		
2. The flow of energy in an eco-system is always		
3. The pyramid of energy in a food chain is always		

4. As energy flows through a food chain, energy in each successive level
5. The animals that feed on primary consumers directly are known as
6. Tropical grasslands in Africa are typically known as
7. The concept of ecological pyramid was first proposed by
8 indicates who eats whom
9. Pyramid of numbers in a parasitic ecosystem is
10.Graphical representation of relationship of producers and consumers in terms of pyramids is known as
MODULE II
Fill in the blanks:
1. The percentage of water usage in agriculture sector globally is
2 resources are not generated
3. Solar cells are made up of thin wafers of semiconductors materials like &
4. Natural gas contains 95% of
5. Quinine is obtained from the
6. The minimum wind speed required for the working of a wind generator is Km/hr
7 is the technique of conservation of all levels of biological diversity
outside their natural habitats. 8 can be extracted from bauxite
9 conservation is the on-site <i>conservation</i> or the <i>conservation</i> of genetic resources in
natural populations of plant or animal species
10. The hydro power potential of India is estimated to be about Kw/hr
MODULE III
Fill in the blanks:
1. Photo chemical smog is produced by and sun light
2. Any single identifiable source of pollution from which pollutants are discharged is
Called source.
3. Itai Itai disease occurred due to consumption of contaminated rice
4. The most commonly used devices to control particulate emissions are &

5. P^H value to be maintained for drinking water is _____

Malla Reddy Engineering College (Autonomous) Maisammaguda, Dhulapally (Post via Kompally), Secunderabad – 500 100.

II B.TECH – II Semester (MR18) I MID EXAMNATIONS

Subject: FORMAL LANGUAGES AND AUTOMATA THEORY

Branch: CSE

Subject code: 80503

Faculty : Mr Sanjeeva Polepaka , Ms Sireesha Jasti.

MODULE-I

S No		Question		Blooms Taxonomy Level	co
1	Consider the followi	ng ϵ –NFA. Illustrate the ϵ	-closure of each state and		1
	find it" s equivalent I	DFA		Apply	
		a b C			
		p} {q} {r}			
	q {p} {q				
	*r {q} {1				
				1	
2	Convert and illustrat	te the following NFA to its	equivalent DFA		
	р	$ \begin{array}{c c} 0 & 1 \\ \hline \{p,q\} & \{p\} \end{array} $	<u> </u>		
	Р	{r} {r}		Apply	1
	r *s	{s} φ {s} {s}		Apply	I
3	(i) Define NFA with	epsilon.			
	(ii) Construct and Gi	ive the DFA equivalent to t	the NFA given		
	below:				
	Οσ,	1		Understand	1
	$\left(\right)^{\circ}$	1	\bigcirc		
	- 90)	0 9 1	-(92)		
	20				
		0			
4		inistic automata to accept s	trings containing the		1
	substring 0101			Understand	
5	i. Design a DFA	A which can accept a all the	estrings in which number	Apply	1
5	U	sible by 3 over alphabet se	0	Арріу	1
	ii. Design a DFA				
	-	01	R		
6	An NFA with stat		R	Apply	1
6	-	Ol es 1-5 and input alphabet {	R {a,b} has following	Apply	1
6	An NFA with stat transition table.	Ol es 1-5 and input alphabet { a	R {a,b} has following B	Apply	1
6	An NFA with stat transition table.	Ol es 1-5 and input alphabet { a {q1,q2}	R {a,b} has following B {q1}	Apply	1
6	An NFA with stat transition table.	Ol es 1-5 and input alphabet {	B $\{q1\}$ $\{q3\}$	Apply	1
6	An NFA with stat transition table. q1 q2 q3	Ol es 1-5 and input alphabet {	B $\{q1\}$ $\{q3\}$ $\{q4\}$	Apply	1
6	An NFA with stat transition table. q1 q2 q3 q4	Ol es 1-5 and input alphabet {		Apply	1
6	An NFA with stat transition table.	$ \begin{array}{c c} & & & \\ \hline es \ 1-5 \ and \ input \ alphabet \ \{ \\ \hline \\$	B $\{q1\}$ $\{q3\}$ $\{q4\}$	Apply	1
6	An NFA with stat transition table.	Ol es 1-5 and input alphabet {		Apply	1
6	An NFA with stat transition table. q1 q2 q3 q4 q5 i. Draw a ii. Calcul	$ \begin{array}{c c} & & & \\ \hline es \ 1-5 \ and \ input \ alphabet \ \{ \\ \hline \\$		Apply	1

7	Explain about Moore and Mealy machine with examples?	Apply	1
	OR		
8	Construct NFA and DFA for the following Languagesi. $L = \{ x \in \{a,b,c\}^* : even number of a's and even b's \}$ ii. $L = \{ x \in \{0,1\}^* : x \text{ is starting with 1 and ends with 2 zero's }$	Apply	1

MODULE-II

S No	Question	Blooms Taxonomy Level	со
1	 (i) Illustrate a Regular Expression. Write a Regular Expression for the set of strings that consists of alternating 0's and 1's. (ii).Construct and examine Finite Automata equivalent to the regular expression (ab+a)*(a)* 	Understand	2
	OR		
2	Translate the regular expression 0*1* in to a finite automaton .	Understand	2
3	Demonstrate a pumping lemma for regular set with example and what are the applications of pumping Lemma	Understand	2
	OR		ľ
4	 Show that L = {a^p/p is prime} is not a Regular using pumping lemma and state pumping lemma. Define regular grammar, right linear grammar and left linear with 	Understand	2
	examples?		
5	Find the regular grammar for the following FA given below	Understand	2
	OR		
6	Define the following a)Regular sets b) Regular Expressions c)Identity Rules b) Regular Expressions	Understand	2
7	Construct DFA equivalent to the grammar $S \rightarrow aS/bS/aA$	Applying	2
,	$A \rightarrow bb$ $B \rightarrow aC$ $C \rightarrow E$	why	
	OR	- 1	
8	Construct a NFA to the regular expression $10+(0+11)0^*1$	Applying	2

MODULE - III

S No	Question	Blooms Taxonomy Level	co
1	Show that the grammar is ambiguous for the string aabbabba $S \rightarrow aB bA$	Understand	3
	$A \rightarrow a aS bAA B \rightarrow b bS aBB$		
	OR		
2	Illustrate ambiguous grammar and CFG with example?	Understand	3
3	Examine that the grammar $S \rightarrow a/aAb/abSb$, $A \rightarrow aAAb/bS$ is ambiguous?	Analyze	3
	OR	·	
4	Simply a reduced grammar equivalent to $S \rightarrow aAa A \rightarrow Sb/bcc/DaA$,	Analyze	3
	$E \rightarrow aC$ $D \rightarrow aDA$		
		1	

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

II B.TECH (MR18) II SEMESTER I MID EXAMINATION OBJECTIVE QUESTION BANK Subject: FORMAL LANGUAGES AND AUTOMATA THEORY

Subjet. TORMAL LANGUAGES AND AUTOMATA THEORT DIanch.	-9E
 Number of states of the FSM required to simulate behavior of a computer with a memory cap storing "m" words, each of length 'n' a) m x 2n b) 2mn c) 2m+n d) All of these 	pable of
2.An FSM witha).One stack is more powerful than an FSM with no stackb)Two stacks are more powerful than a FSM with one stack c) Both A and B d) None	[] of these
3. In FSM Q stands fora)finite set of states b)finite set of input alphabet c)initial state d)final state	[]
4. In FSM \sum stands for A)finite set of states b)finite set of input alphabet c)initial stated) final state	[]
5. In FSM q0 stands for a)finite set of states b)finite set of input alphabet c)initial state d)final state	[]
6. In FSM final state is represented by a)input symbolb)double circlec)circled)None of these	[]
7.In five tuple notation DFA and NFA differ in a)transition function b)initial states c)final states d)None of these	[]
8.Each input symbol on each states must be defined in a)DFA b)NFA c)both (a) and (b) d) None of these	[]
9. Given the language $L = \{ab, aa, baa\}$, which of the following strings are in L*? a)abaabaaabaa b)aaaabaaaa c)baaaaabaa d)above all	[]
10. If two finite state machines are equivalent, they should have the same number of a)statesb)edgesc)states and edgesd)None of these	[]
11. A Language L Is defined asa)set of all possible strings over alphabet set b)set of all possible symbols c)set of letters d)alphabet only	[]
12. DFA uses tuple notationa)2b)3c)4d) 5	[]
13.NFA uses tuple notationa) 2b) 3c) 4d) 5	[]
14. States in DFA are represented bya) cycles b) circles c) lines d) arrow marks	[]
15 Transitions in DEA are represented by	ГI

15. Transitions in DFA are represented by

[]

Branch:CSE

a) cycles b) circles c) lines d) arrow marks
16. Moore Machines has how many tuples representations[]a) 1b) 2c) 3d) 6
15. Mealy Machines has how many tuples representations[]a) 1b) 2c) 3d) 6
16Moore Machines Output is associated with[]a)statesb) transitionc) input and stated) None of these
17. Mealy Machines Output is associated with[]a) Statesb) transitionc) input and state or transitiond) None of these
18. FSM with output can be represented by[]a) Mealy Machinesb)Moore machinesc) both (a) and (b)d)None of these
19 number of final states can be there in FSM [] a) only one b) more than one c) finite set d) Zero
20. Major difference between DFA and NFA is [] a) Number of states b) Number of input symbols c) Transition function d) Final state
21. Number of tuples in NFA with epsilons is a) 3 b) 4 c) 5 d) 6
 22. A string W is accepted by FSM if the FC is in a) Initial state b) start state c) final state d) None of these
23 .Total numbers of symbols in the string is called [] a) Total b) input c) string length d) all of these
24. Positive closure of a set does not include [] a) input b) epsilon c) null d) None of these
25. Transition function maps. a) $\Sigma * Q$ b) $Q * Q$ c) c) $\Sigma * \Sigma$ d) d) $Q * \Sigma$ []
26. CFG is a) Type 1 grammar is b) Type 2 grammar c) CSG d)Unrestricted []
 27. CSG is a) Type 3 grammar b)Type 2 grammar c)Type 1 grammar d)Unrestricted
28. There are tuples in finite state machine. [] a) 1 b) 4 c) 5 d) Unlimited
 29. The Language formed by Regular grammar is a) Regular b) context free c) context sensitive d) recursively enumerable
30. The Language formed by context freegrammar is[]a) Regularb) context freec) context sensitived) recursively enumerable

31. The Language formed by context sensitive grammar is a)Regulard) recursively enumerable	[] le
32. The Language formed by unrestricted grammar isa) Regular b) context free c) context sensitive d)recursively enumerable	[] e
33. FSM accepts the grammara) Regularb) context freec) context sensitived) recursively enumeration	[] able
34. PDA accepts the grammar a)Regularb)context freec) context sensitived) recursively enumerable	[] le
35. LBA accepts the grammara) Regularb) context freec) context sensitived) recursively enumerable	[]
36. Turing machine accepts the grammara) Regularb) context freec) context sensitived) unrestricted	[]
37. Type 0 Grammar isa) Unrestricted b) context sensitive grammar c) CFG d) Regular Grammar	[]
38. Type 1 Grammar isa) Unrestricted grammar b)context sensitive grammar c)CFG d) Regular Grammar	[]
39. Finite automata requires minimum number of stacks.a) 1b) 0c) 2d) None of the mentioned	[]
40. Type 3 Grammar isa) Unrestricted grammarb)context sensitive grammarc)CFGd) Regular Grammar	[]
41. Type 3 Grammar is a) a^* b) a^n c) a^nb^n d) $a^nb^nc^n$	[]
42. Type 2 Grammar is a) a^* b) a^n c) a^nb^n d) $a^nb^n c^n$	[]
43. Type 1 Grammar is a) a^* b) a^n c) a^nb^n d) $a^nb^n c^n$	[]
44. Type 1 Grammar is a) a^* b) a^n c) a^nb^n d) $a^nb^n c^n$	[]
45. Set of all possible strings over a alphabet is calleda) languageb) setc) stringd) language	[]
46. A string whose length is zero is represented by a) epsilonb) NULLc) zerod) one	[]
47. Positive closure of language does not consistsa) epsilonb) NULLc) zerod) one	[]

48. Real time application of FSM a)Human brainc) Countersd) All the above	[]
49 .Which of the following is mathematical model of computera) FSMb) Statesc) transitionsd) None	[]
50. String length is defined as a) Number of symbols in the string b) Number of zeros c)Number of ones d) None	[]
51. Find the regular expression for the set of all strings over $\{a,b\}$ in which there are atleast two occurrences of b between any two occurrences of a a) $b^*(aa+bb)^*a^*$ b) $(aa)^*ba(bb)^*$ c) $b^*+(b+abb)^*ab^*$ d)None of the above	[]
52. $(1+00*1)+(1+00*1)(0+10*1)*(0+10*1)$ a) $(0+10*1)*0*1$ b) $(1+00*1)(0+10*1)*$ c) All the aboved)None of the above	[]
53.The empty string is the string with a)Zero occurrence of the symbol c) No occurrence of the symbolb)Non-zero occurrence of the symbol d)d)All the above	[]
54. $+1*(011*)*(1*(011*))*$ a)1*(011)*c) All the aboved) None of the above	[]
55. Which of the following is falsec)Both A and Bd)None of the abovea) $(r1+r2)^* = (r1^*r2^*)^*$ b) $(r^*)^* = r^*$ c)Both A and Bd)None of the above	[] ove
56. The set of regular languages over the given alphabet set is not closed undera) Intersection b) Union c) Complement d) None	[]
57. Which of the following pairs are equivalent $a)(a^*+b)$ and $(a+b)^*$ $b)(ab)^*a$ and $a(ba)^*$ c) $(a+b)^*$ and (a^*+b^*) d) None	[]
58. Which of the following is accepted by L(aa*+aba*b*)a) ababb) aaabc) abbad) None	[]
59.A language L={awa : w {a,b}*} isa) Context sensitiveb) Regularc) Context freed) None	[]
60. A solution for the equation $R=Q+RP$ isa) $R=PQ^*$ b) $P=RQ^*$ c) $Q=RP^*$ d) $R=QP^*$	[]
61. The value of the relation $(P^*+Q^*)^*$ is a) $(P^*Q^*)^*$ b) * c) P^*Q^* d) None	[]
62.The value of the relation $(P+Q)^*$ a) P^*+Q^* b) $(P^*Q^*)^*$ c) P^*Q^* d) *	
63. Regular expression $\{0,1\}$ is equivalent to a) $0 U 1$ b) $0 / 1$ c) $0 + 1$ d) All of above	[]
64 .A regular language over an alphabet a is one that can be obtained froma) Unionb)Concatenationc)Kleened)All of above	[]

65. Precedence of regular expression in decreasing order is[]a) *,.,+ b).,*,+ c).,+,* d)+,a,*
66.Regular expression Φ^* is equivalent to a) ϵ b) Φ c)0d)1
67. a? is equivalent to a) A b) $a+\Phi$ c) $a+\epsilon$ d) wrong expression[]
68. $(a+b)^*$ is equivalent to[] $a)b^*a^*$ b) $(a^*b^*)^*$ c) a^*b^* d) none of above
69. Which of the following pair of regular expression are not equivalent?[]a) $1(01)^*$ and $(10)^*1$ b) $x(xx)^*$ and $(xx)^*x$ c)(ab)* and a^*b^* d)x+ and x^*x+
70. Regular sets are closed under union, concatenation and kleene closure.[]a) Trueb) Falsec) Depends on regular setd) Can't say
71. Complement of regular sets are[]a) Regularb) CFGc) CSGd) RE
72. If L1 and L2 are regular sets then intersection of these two will be[]a) Regularb) Non Regular Recursivec)Recursived) Non Recursivec)Recursive
73. If L1 is regular L2 is unknown but L1-L2 is regular ,then L2 must be[]a) Empty setb) CFGc) Decidabled) Regular
74.Reverse of (0+1)* will be []
a) Phi b) Null c) (0+1)* d) (0+1)
75. Complement of (a+b)* will be[A]a) Phib) Nullc) Ad) B
76. L= language of words containing even of a's .Regular Expression is[]a) (a+b)aa(a+b)b) (b+aba)c) a+bbaabad) (a+b)ab(a+b)
77. How many strings of length less than 4 contains the language described by the regular expression $(x+y)^{\frac{1}{2}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
78. Which of the following if true?[]a) $(01)*0=0(10)*$ b) $(0+1)*0(0+1)*1(0+1)=(0+1)*01(0+1)*$ []c) $(0+1)*01(0+1)*+1*0* = (0+1)*$ d) All of the mentioned
79. Regular grammar is a)Context free grammar[]b)Non context free grammarc)English grammard)none
80. Let the class of language accepted by finite state machine be L1 and the class of languages represented by regular expressions be L2 then a) $L1+L2$ b) $L1 U L2 = .*$ c) $L1=L2$ d) None

81. Which of the following is not a regular expression? a) $[(a+b)^*-(aa+bb)]^*$ b) $[(0+1)-(0b+a1)^*(a+b)]^*$ c) $(01+11+10)^*$ d) $(1+2+0)^*(1+2)^*$	[])*
82.Regular grammar is a)Type 3 grammar b)Type 2 grammar c)Type 1 grammar d)Unrestricted	[]
 83.Which of the following is true? a)Every subset of a regular set is regular b)Every finite subset of non-regular set is regular c) The union of two non regular set is not regular d) Infinite union of finite set is regular 	[] r
84. L and ~L are recursive enumerable then L isa)Regularb)Context freec)Context sensitived)Recursive	[]
85. Regular expressions are closed under a)Unionb) Intersectionc)Kleen stard)All of the mentioned	[]
86. Finite state machines recognize palindromesa) May notb) Mayc) Can'td) Can	[]
87. The logic of Pumping lemma is a good example of a)Iteration b)Recursion c)The divide and conquer technique d)The pigeon hole prir	[] nciple
 88. Which of the following is not regular a)String of zero whose length is prime b) String of zero whose length is perfect square c) Set of palindromes over 0 and 1 d) All of the above 	[]
89. Pumping lemma can be useda) Whether two languages are equivalentc) check whether a language is irregulard) None of the above	[]
 90. Which of the following is regular a)String of odd number of zeroes b)String of 0's whose length is prime number c) String of all palindromes made up of 0's and 1's d)String of 0's whose length is perfect square 	[] Iare
91. The recognizing capability of NDFA and DFAa) Must be same b) May be different c) Must be different d)None of the same	[] above
92.Suppose h is the homomorphism from the alphabet $\{0,1,2\}$ to the alphabet $\{a,b\}$ defined by $h(0)=a,h(1)=ab, h(2)=ba$ what is $h(0120)$ a) ababa b) abbbb c) aaabb d) aabba	[]
93.If L is regular, then {x:revese (x) in L} is also regular a)May or may not be b) Yes c) No d) None of the above	[]
94. The grammar generated by production rule S->aCa, C->acab is a) anan, n>0 b) anban ,n>0 c) anan,n>=0 d)no of the above	[]
95. The language L{0n1n2k3k} is a	гı
yo. The language E (on the language E) is a	[]

96.Choose the correct statements a)Some regular languages can't be generated by an CFG b)Some non regular languages can' generated by an CFG c)Any regular language has not an equivalent CFG d)All languages ca generated by CFG	
97. Chomsky hierarchy is representation of a) Parsers b) Grammars c) Machinesd) None of these	[]
98. Type 2 Grammar is a) Unrestricted grammar b) context sensitive grammar c) context free grammar d) regular Gra	[] ammar
99. which of the following language is context free a) $anbi:n=j2$ b) A c) a^nb^n d) $a^nb^nc^n$	[]
100. A recursive language is alsoa)Deterministicb)CFLc)Recursive and not left lineard)Both left linear and right linear	[] near
101.A context free language is called ambiguous ifa)It has two or more leftmost derivations for some terminal string w \in L (G)b)It has two or more leftmost derivations for some terminal string w \in L (Gc)Both (a) and (b)d)None of these	[]
102. The language L= $\{0^m 1^m 0^m m \ge 1\}$ is aa)Regular languageb)Context free languagec)Both (a) and (b)d)None of these	[]
103. The context free grammar $S \rightarrow A111 S1$, $A \rightarrow A0 \mid 00$ is equivalent to [A] a) $\{0^{n}1^{m} \mid n=2, m=3\}$ b) $\{0^{n}1^{m} \mid n=1, m=5\}$ c) $\{0^{n}1^{m} \mid n$ should be greater than two and m should greater than four} d) None of these	d be
104. The context free grammar $S \rightarrow SS 0S1 1S0 \epsilon$ generates a)Equal number of 0's and 1's b) Unequal number of 0's and 1's c) Any number of 0's followed by any number of 1's d) None of these	[]
 105. Which of the following statement is false? a)In derivation tree, the label of each leaf node is terminal b)In derivation tree, the label of all except leaf nodes is a variable c) In derivation tree, if the root of a sub tree is X then called –tree d) None of these 	
 106. While converting the context free grammar into Greibach normal form, which of the follow not necessary a)Elimination of null production b) Elimination of unit production c) Converting given grammar in Chomsky normal form d)None of these 	ving is []
107. Which of the following statement is false?a)A recursive language is also a regular languageb)A context free language is also a regular languagec)A context free language is also recursive enumerable languaged)Both (a) and	[] nd (b)
108. A context free grammar G is in Chomsky normal form if every production is of the form a)A \rightarrow BC or A \rightarrow A b) A \rightarrow BC or A \rightarrow a c) A \rightarrow BCa or B \rightarrow b d)None of the	[] ese
109. Which of the following CFG's can't be simulated by an FSM?	[]

$a)s \dashrightarrow >sa \mid a \qquad b) s \dashrightarrow >abX \ , X \dashrightarrow >cY, \ Y \dashrightarrow >a \mid axY \qquad c)s \dashrightarrow >a \ sb \mid ab \qquad d) None \ of \ these$
110.Basic limitation of FSM is that it[]a)cannot remember arbitrary large amount of informationb)sometimes fails to recognize grammarsthat are regularc)sometimes recognizes grammars are not regulard)None of these
 111. Which of the following is not possible algorithmically? [] a)Regular grammar to context free grammar b) Non-deterministic FSA to deterministic FSA c) Non-deterministic PDA to deterministic PDA d)None of these
112. The set {anbn n = 1, 2, 3} can be generated by the CFG[]a)S ->aaSbb + abSb)S ->ab aSbc)S-> ab aSb Ed)S ->aaSbb + abSb)S ->ab aSbc)S-> ab aSb E
 113. The context free grammar is ambiguous if [] a) the grammar contains useless non-terminals b)it produces more than one parse tree from some sentence c)some production has two non-terminals side by side on the right hand side d) none of the above.
114. In machine language the operand can be[]a) an addressable registerb) the location of an instruction in memoryc) literal numbers to be usedby the programd)any of the above
115.Consider the CFG with {S, A, B} as the non-terminal alphabet, {a,b} as the terminal alphabet, S as the start symbol and the following set of production rules. Which of the following strings is generated by the grammar? S>aB $S>bAB>b$ $A>aB>bS$ $A>aSB>aBB$ $A>bAA$ [] a) aaaabb b) aabbbb c) aabbab d) abbbba
 116.Correct hierarchical relationship among context- free, right-linear, and context-sensitive language is a)context-free ⊂ right-linear ⊂ context-sensitive b) context-free ⊂ context-sensitive ⊂ right-
linearc) context-sensitive \subset right-linearcontext-free \subset context-sensitive
⊂ context-sensitive 117. In the following grammar : $x ::= x \oplus y 4 y ::= z * y I 2 z ::= id$ which of the following is true ? a)⊕ s left associative while * is right associative b) Both ⊕ and * are left associative []
⊂ context-sensitive 117. In the following grammar : $x : := x \oplus y 4 y : := z * y I 2 z : := id$ which of the following is true ? [] a) \oplus s left associative while * is right associative b) Both \oplus and * are left associative c) \oplus is right associative while * is left associative d) None of these 118. ADG is said to be in Chomsky Form (CNF), if all the productions are of the form A> BC or A> > a. Let G be a CFG in CNF. To derive a string of terminals of length x, the number of productions to be used is []

a) $(a + b) (a + b)^*$ b) (a+b)(a+b)c) None of these d) Consider the grammar : S —>ABCc | Abc $BA \longrightarrow AB$ Bb —> bb $Ab \longrightarrow ab$ $Aa \longrightarrow aa$ Which of the following sentences can be derived by this grammar [] a)abc b) aab c) abcc d) abbb 122.Pumping lemma is generally used for proving that [] a)given grammar is regular b)given grammar is not regular c) whether two given regular expressions are equivalent or not d) None of these 123. The language of all words with at least 2 a's can be described by the regular expression [] a)(ab)*a and a (ba)* b) $(a + b)^* ab^* a (a + b)^*$ c) $b^* ab^* a (a + b)^* d$ all of these 124. Any string of terminals that can be generated by the following CFG is $S \rightarrow XY$ X-->aX | bX | a $Y \rightarrow Ya | Yb | a$ []

- a) has atleast one 'b'
- b) should end in a 'a'
- c) has no consecutive a's or b's
- d) has atleast two a's

125. If $\Sigma = (0, 1)$, $L = \Sigma^*$ and R = (0n 1nsuch that n > 0) then languages $L \cup R$ and R respectively are

[]

- a) Regular, Regular
- b) Regular, Not regular
- c) Not regular, Not regular
- d) None of the above

II B.Tech II Sem I Mid Question Bank(MR18)

Subject: OOAD

Branch /Specialization: CSE/CSE

Name of the Faculty: Ms.S.Sandhya Rani, Ms.T.Harika, Mr.P.Venkateshwarrao, Ms.R.Jyothsna

Module I

S.No	Question	Bloom's Taxonomy	СО
		Level	
1.	Explain the importance of Modeling.	Understanding	1
	OR		
2.	Demonstrate Object Oriented Modeling.	Understanding	1
3.	Summarize the overview of the UML.	Understanding	1
OR			
4.	Classify Structural things in UML.	Understanding	1
5	Explain briefly about the Principles of Modeling	Understanding	1
OR			
6	Explain about Software Development Life Cycle with a neat sketch.	Understanding	1
7	Explain about Modeling System's Architecture with a neat diagram.	Understanding	1
OR			
8	Classify different diagrams in UML.	Understanding	1

Module II

1.	Explain about common modeling techniques for usecase diagram.	Understanding	2
	OR		
2.	Summarize all possible relationships in UML.	Understanding	2
3.	Explain about common modeling techniques of a usecase.	Understanding	2
	OR		
4.	Demonstrate a usecase diagram for Library Management System.	Understanding	2
5.	Compare and Contrast fork and join with examples.	Understanding	2
OR			
6.	Explain about common modeling techniques of Classes.	Understanding	2
7.	Explain about common modeling techniques for Activity diagram.	Understanding	2
OR			
8.	Demonstrate an activity diagram for Online Ticket Reservation System.	Understanding	2

Module III

1.	Explain about Advanced classes with common modeling techniques.	Understanding	3	
	OR			
2.	Summarize interfaces, types & roles.	Understanding	3	
3.	Explain common modeling techniques for packages.	Understanding	3	
OR				
4.	Outline the concept of Advanced relationships with common modeling techniques.	Understanding	3	

II B.Tech II Sem(MR18) I MID Examination

OOAD Objective Questions

0 C	
1.UML stands for	[]
a)Unified modeling language b)Uniform modeling language	
c)United modeling language d)Unified manipulating language	
2.00AD stands for	[]
a)Object oriented analysis and data b)Oriented object analyze and data	
c)Object oriented analysis and designd)Object orientation analysis and design	
3.Use case is represented in the form of	[]
a)Circle b)Oval c)Rectangle d)ellipse	
4. Actors and use cases are present in	[]
a)Class diagram b)Use case diagram c)Sequence diagram d)Activity diagram	
5.Normally use cases and actors are connected through	[]
a)Dependencies b)Realizations c)Associations d)generalizations	
6 are used to communicate desired structure and behavior	[]
a)Models b)Examples c)Prototypes d)none	
7. Models are considered to be as	[]
a)Step by step process b)Well accepted engineering technique	
c)Simplification of reality d)All the above	
8. Aims of modeling are	[]
a)Visualize b)Specify c)Construct d)All the above	
9. How many principles are there for modeling?	[]
a)4 b)3 c)2 d)1	
10.Class diagram is represented in the form of	[]
a)Square b)Rectangle c)Rhombus d)circle	
11.Class consists of how many parts?	[]
a)1 b)2 c)3 d)4	
12.Attributes of a class represents	[]
a)Properties of class b)Examples of class	
c)Simplification of class d)None	
13.Dependency is represented in the form of	[]
a)Straight line b)Curved line c)Dashed line d)None	
14.Aggregation is represented with a straight line which ends with	[]

a)Square b)Rectangle c)Rhombus d)Circle	
15.Inheritance property is given by relationship	[]
a)Dependency b)Aggregation c)Compositiond)Generalization	
16.Generalization relationship is represented in the form of	[]
a)Straight line ends with triangle b)Straight line ends with rectangle	
c)Straight line ends with circle d)Straight line ends with rhombus	
17.UML is the standard language for writing	[]
a)Stories b)Software blue printsc)Bills d)None	
18.Basic relationships are classified into types?	[]
a)4 b)5 c)6 d)7	
19.In software how many ways exists to build a model?	[]
a)1 b)2 c)3 d)4	
20.Main building block of algorithmic perspective in software developing is	[]
a)Procedure b)Function c)Use case d)Both A, B	
21.Object has how many states?	[]
a)1 b)2 c)3 d)4	
22 perspective is to decompose large algorithms into smaller ones.	[]
a)Object oriented perspective b)Algorithmic perspective	
c)Software perspective d)Prototype perspective	
23 is considered as contemporary view of software development.	[]
a)Object oriented perspective b)Algorithmic perspective	
c)Software perspective d)Prototype perspective	
24.Interface is represented in the form of	[]
a)Ellipse b)Circle c)Dashed ellipse d)Dashed circle	
25.Collaboration is represented in the form of	[]
a)Ellipse b)Circle c)Dashed ellipse d)Dashed circle	
26.Cube represents a	[]
a)Nodeb)Component c)Active class d)collaboration	
27.Active class emphasizes activity.	[]
a)Software activity b)Controlling activity	
c)Object oriented activity d)Algorithmic activity	
28 is an expressive language. []
a)C b)C++ c)UMLd)Java	
29.UML is used in []
a)Telecommunications b)Transportation c)Defense d)All the above	

30.UML is a language for	[]
a)Visualizing b)Constructingc)Specifying d)All of the above	
31.Models in UML should be	[]
a)Precise b)Lengthy c)Confusing d)None of the above	
32.For developing and deploying software systems we need to carry the following	things. []
a)Analysis b)Design c)Implementation decisions d)All of the above	
33.Conceptual model of UML consist of elements.	[]
a)3 b)4 c)5 d)6	
34.Building blocks of UML consist of how many elements?	[]
a)1 b)2 c)3 d)4	
35. Things / Basical elements of UML consist of how many elements?	[]
a)5 b)6 c)7 d)None	
36 are considered to be as nouns of UML.	[]
a)Structural things b)Behavioral things c)Grouping things d)Annotational	l things
37 is a collection of objects.	[]
a)Use case b)Collaboration c)Active class d)None	
38.Fourth part of a class represents	[]
a)Responsibilities b)Operations c)Attributes d)Name	
39.Service of a class is specified by	[]
a)Use case b)Interface c)Collaboration d)Component	
40 represents complete / partial behavior of class.	[]
a)Use case b)Interface c)Collaboration d)Component	
41 provides cooperative behavior.	[]
a)Use case b)Interface c)Collaboration d)Component	
42.Processes and threads are inscribed in	[]
a)Use case b)Interface c)Collaboration d)None	
43 is a modular part of a system.	[]
a)Nodeb)Component c)Active class d)Class	
44.Components resides on a	[]
a)Nodeb)Component c)Active class d)Class	
45 are considered as verbs of a model.	[]
a)Structural things b)Behavioral things c)Grouping things d)Annotationa	l things
46.Behavioral things consists of	[]
a)Interactions b)State machines c)Both a, b d)none	
47.State machine is represented in the form of	[]

a)Rectangle b)Circle c)Square d)Rounded rectangle
48 represents various states of an object which passes in its lifeti[]
a)Interactions b)State machines c)Both a, b d)none
49 are the organizational parts of UML. []
a)Structural things b)Behavioral things c)Grouping things d)Annotational things
50.Models are decomposed into []
a)Structural things b)Behavioral things
c)Annotational things d)Grouping things
51.Example of grouping thing is a []
a)State machine b)Package c)Component d)Class
52. These are the explanatory parts of UML. []
a)Structural things b)Behavioral things c)Grouping things d)Annotational things
53.Explanatory part of UML is represented in the form of []
a)Note b)Nodec)Cube d)Rectangle
54 are used to describe, illuminate and remark about element in a model. []
a)Structural things b)Behavioral things
c)Grouping things d)Annotational things
55 is a semantic relationship between two things. []
a)Dependency b)Association c)Generalization d)Aggregation
56.Association represents set of []
a)Nodes b)Notes c)Links d)Classes
57.In relationship objects of one entity is substituted with the objects of other entity.
[]
a)Dependency b)Association c)Generalization d)Aggregation
58 is relationship between classifiers. []
a)Dependency b)Composition c)Aggregation d)Realization
59 reflects the graphical representation of a system to be developed in UML.
a)Diagrams b)Prototypes c)Blueprints d)None of the above
60.UML diagrams are classified into how many types? []
a)10 b)11 c)12 None
61 diagram is commonly used in modeling object oriented systems?[]
a)Use case b)Class c)Object d)activity
62. There are stereotyped dependencies apply among classes. []
a)7 b)8 c)9 d)6
63 contains list of actual arguments that map to the formal arguments.[]

a)Bind b)Derive c)Friend d)Inst	tance
64 specifies that the target	may be computed from the source. []
a)Bind b)Derive c)Friend d)Ins	tance
65 specifies that the source	is given special visibility into the target. []
a)Bind b)Derive c)Friend d)Ins	ance
66 is used to represent connection betw	veen a class and an object in the same diagram. []
a)Bind b)Derive c)Friend d)Ins	ance
67 specifies which elem	nent creates objects of another elements. []
a)Bind b)Derive c)Friend d)No	ne
68.Powertype specifies that the target is a _	of the source. []
a)Powertype b)Bind c)Derive d)Frie	end
69specifies that the source is at a fir	er degree of abstraction than the target. []
a)Powertype b)Bind c)Refine d)No	ne
70 specifies contrary to the normal deper	dency that the source depends on target. []
a)Use b)Bind c)Refine d)None	
71 is represented as a tabbe	d folder.
a)Nodeb)Note c)Package d)Componen	t
72.How many stereotypes are used among	packages? []
a)1 b)2 c)3 d)4	
73. How many dependencies exists among	use cases? []
a)2 b)3 c)4 d)5	
74. How many types of stereotyped dependent	encies exists among interactions? []
a)4 b)5 c)6 d)None	
75 specifies that the tar, with possibly different values, states or role	get is the same object as the source but at a later point in time es. []
a)Become b)Call c)Copyd)None	
76 specifies source operation	on which invokes the target operation. []
a)Become b)Call c)Copyd)None	
77 specifies that the tar	get object is an exact but independent copy of the source.
a)Become b)Call c)Copyd)None	
78 objects of the parent ma	y have more than one children. []
a)Complete b)Incomplete c)Disjoint	d)Overlapping
79. What relation means that the objects of	the parent may not have more than one children? []
a)Complete b)Incomplete c)Disjoint	d)Overlapping
80 specifies that not all children in t	he generalization have been specified. []

a)Complete	b)Incomplete	c)Disjoint	d)Overlapping	
81spec	ifies that all ch	ildren in the ge	neralization have been specified in the n	nodel. []
a)Complete	b)Incomplete	c)Disjoint	d)Overlapping	
82.Most com	mon modeling i	idioms in assoc	iation is	[]
a)High up	b)Low up	c)Look up	d)None	
83.In	rel	lation an object	may be a part of only one composite at	a time. []
a)Composite	aggregation	b)Generalized	l aggregation	
c)Associated	aggregation	d)None		
84.How many	constraints are	e applies to asso	ociation relationships?	[]
a)6 b)7	c)8 d)Non	e		
85 rela	tion links betw	een objects that	t may be added, removed and changed fr	eely. []
a)Implicit	b)Ordered	c)Changeable	d)Add only	
86.In	relation	new links may	v be added.	[]
a)Implicit	b)Ordered	c)Changeable	d)Add only	
87.In which r	elation if a link	is added once	which may not be modified?	[]
a)Frozen	b)Ordered	c)Changeable	d)Add only	
88.Realization	n is represented	in how many f	forms?	[]
a)1 b)2	c)3 d)4			
89.In which fo	orm interface st	tereotype is use	d and a directed dashed line with a large	e arrow head?
a)Simplified f	form b)Elid	ed form c)Can	onical form d)None	
90.Which spe	cifies a package	e that is only a	view on some other package?	[]
a)Façade	b)Framework	c)Stub d)Sub	system	
91.Which spe	cifies a package	e which consist	s of patterns?	[]
a)Façade	b)Framework	c)Stub d)Sub	system	
92.Which spec	ifies a package tl	hat serves as a pi	roxy for the public contents of another packa	age? []
a)Façade	b)Framework	c)Stub d)Sub	system	
93.Which spe	cifies a package	e representing a	an independent part of the entire system [to be modeled?
a)Façade	b)Framework	c)Stub d)Sub	system	
94Swimlanes	are present in _		diagram.	[]
a)Activity	b)Class	c)Use case	d)Sequence	
95.Objects are	e the	of class	ses.	[]
a)Examples	b)Instances	c)Proxies	d)None	
96	are repr	resented in the	form of partitioned regions.	[]
a)Columns	b)Rows	c)Swimlanes	d)None	

97.Each has its name, which is written on top of column. []
a)Classb)Use case c)Object d)None
98.Branching is represented by a []
a)Diamond b)Square c)Rhombus d)Triangle
99 is a process of splitting a single flow of control into multiple flows. []
a)Joining b)Forking c)Both d)None
100 diagram models the dynamic aspects of the system []
a)Use case b)Activity c)Classd)Both a,b
101.Which diagram emphasize the flow of control from object to object? []
a)Interaction b)Activity c)Classd)Sequence
102. Which diagram concentrates on the flow of control from activity to activity? []
a)Interaction b)Activity c)Classd)Sequence
103.Activity diagram consists of []
a)Action statesb)Transitions c)Objects d)All the above
104.In which diagram use cases, actors and their relationships are present?
a)Classb)Sequence c)Use case d)Object
105.A is a contract or an obligation of a class. []
a)constraint b)note c)responsibility d)none
106.A use case diagram is used to model of a system. []
a)structure b)behavior c)organization d)none
107.In a class, a private operation is shown by:
a)+ b)# c)* d)none
108.A relationship between use cases and collaboration can be viewed as relationship.
a)association b)generalization c)link d)realization
109.In the description of a class, a protected operation is shown by: []
a)+ b)# c)- d)none
110.A is a condition or situation during the life of an object during which it satisfies some condition, performs some activity, or waits for some events.
a)class b)state c)activity d)specification
111.The view addresses the performance, scalability and throughputof the system. []
a)use case b)process c)implementation d)design
112. Which is not one of the model of OMT? []
a)dynamic b)staticc)functional d)none
113.A use case view represents aspects of the view. []
a)static b)dynamic c)both a and b d)none

114.The view addresses the distribution, delivery and installation the parts that make up of the physical system.
a)use case b)process c)implementation d)none
115.A tagged value extends the of a UML building blocks[]
a)vocabulary b)properties c)semantic d)definition
116.A class diagram shows relationship between/among:
a)Classes b)Interfaces c)Collaborations d)all of these
117.A allow us to you to create new kind of building blockderived from existing on[]
a)tagged value b)stereotype c)interface d)class
118. Which is not one of the characteristic of object orientation? []
a)Abstraction b)Encapsulation c)Polymorphism d)Generalization
119.A model is not used for: []
a)documentation b)visualizationc)understanding d)realization
120.A class is used for: []
a)generalization b)classification c)specification d)collection
121.In a class, a public operation is shown by:[]
a)* b)# c)– d)none
122. Which view doesn't represents a software-intensive system. []
a)class b)use case c)implementation d)deployment
123. The architecture of a software-intensive system can be described byviews. []
a)three b)five c)nine d)none
124. Which is not an attribute of an object? []
a)behavior b)state c)time d)space
125.Which is not the attribute of an entity?
a)behavior b)state c)time d)space

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

B.Tech– II Year II Semester (MR18 : 2019-20)

I Mid Examination Question Paper January -2020

Subject : Software Engineering Subject Code: 80511 Faculty Name: Mr. G. Venugopal & P. Babu

Branch: CSE Max. Marks: 20

_		Bloom's	
Q.No.	Question	Taxonomy	CO
-		Level	
	MODULE -I		
1.	Summarize the software engineering and its layers?	Understanding	2
	OR		
2.	Demonstrate the capability Maturity Model Integration (CMMI) and Explain in detail?	Understanding	2
3.	Explain "Software myth"? Discuss on various types of software myths and the true aspects of these myths?	Understanding	2
	OR	1	
4.	Illustrate the Incremental process models and explain them?	Understanding	2
	·	•	
5.	Analyze the changing nature of software in detail?	Analyzing	4
	OR		
6.	Compare the Waterfall model and Spiral model?	Analyzing	4
		-	1
7.	Construct the diagram of unified process model?	Applying	3
	OR		
8.	Choose any two evolutionary process models?	Applying	3
	MODULE -II		
1	Compare functional requirements and Non-functional requirements?	Analyzing	4
	OR		1
2	Analyze User and System requirements?	Analyzing	4
	1	1	1

3	Explain requirement validation is needed and discuss briefly?	I In denston din e	
3	Explain requirement valuation is needed and discuss orienty?	Understanding	
	OR		
4	Illustrate the requirements elicitation and analysis	Understanding	,
5.	Outline the SRS document and explain along with its contents?	Understanding	
	OR		<u> </u>
6.	Demonstrate interface specification in detail?	Understanding	
7.	Summarize requirement engineering process?	Understanding	
	OR		
8.	Explain about requirements management?	Understanding	
	MODULE -III		
1.	Demonstrate System Models and Context models?	Understanding	
	OR		
2	Illustrate the Behavioural models?	Understanding	
	<u> </u>	I	<u> </u>
	Summarize the Structured methods and discuss briefly?	Understanding	
3.			
3.	OR		

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS) Maisammaguda, Dhulapally,(Post Via Kompally), Secunderabad - 500100. Department of Computer Science and Engineering II B.Tech II Sem I Mid Examination - (MR18 Regulation) Subject: 80511 & Software Engineering Faculty Name: G. Venugopal & P. Babu

1. Which is focused towards the goal of the o	organization	[]
a) Feasibility study	b) Requirement gathering	
c) Software requirement specification	d) Software requirement validation	
2. Which model is also known as Classic life	cycle model?	[]
a) Waterfall model b) Big Bang model	c) V-model d) Spiral model	
3.Software project management is the process	ss of managing all activities that are involved	in
software development, they are		[]
a) Time b) Cost c) Quality mar	agement d) All mentioned above	
4. Which of the following cannot be applied	with the software according to Software Eng	ineering
Layers?		[]
a) Process b) Methods c) Manufactur	ing d) None of the above.	
5. Which software is used to control products	s and systems for the consumer and industrial	l
markets?		[]
a)System software b) Arti	ficial intelligence software	
c)Embedded software d)Eng	ineering and scientific software	
6. Which software enables the program to ad-	equately manipulate information?	[]
a)Instructions b) Data Structures c) Doc	uments d)All of the above	
7.In which elicitation process the developers	discuss with the client and stakeholders and	know
their expectations from the software?		[]
a)Requirement gathering b) Organizing	requirements	
c) Negotiation & discussion d) Documentation	tion	
8.If requirements are easily understandable a	and defined then which model is best suited?	[]
a) Spiral model b) Waterfall model	c) Prototyping model d) None of the above	

9.CASE Tool stands for	[]
a) Computer Aided Software Engineering b) Component Aided Software Engineering	
c) Constructive Aided Software Engineering d) Computer Analysis Software Engineeri	ng
10.Software is defined as	[]
a) Instructions b) Data Structures c) Documents d) All of the above	
11.What are the characteristics of software?	[]
a) Software is developed or engineered; it is not manufactured in the classical sense.	
b) Software doesn't "wear out".	
c) Software can be custom built or custom build. d) All mentioned above	
12.Compilers, Editors software come under which type of software	[]
a) System software b) Application software c) Scientific software d) None of th	e above.
13.RAD Software process model stands for	[]
a) Rapid Application Development b)Relative Application Development	
c) Rapid Application Design d)Recent Application Development	
14.Software project management comprises of a number of activities, which contains	_[]
a) Project planning b) Scope management c) Project estimation d)All mentioned abo	ove
15. Which of the following is not defined in a good Software Requirement Specification	(SRS)
document?	[]
a)Functional Requirement b) Non-functional Requirement	
c) Goals of implementation d)Algorithm for software implementation	
16. What is the simplest model of software development paradigm?	[]
a) Spiral model b) Big Bang model c) V-model d)Waterfall model	
17.Software Requirement Specification (SRS) is also known as specification of	[]
a) White box testing b) Acceptance testing c) Integrated testing d) Black box testing	
18. Which one of the following is a functional requirement?	[]
a) Maintainability b) Robustness c) Testability d) None of the mentioned	
19. Which one of the following is a requirement that fits in a developer's module ?	[]
a) Availability b) Testability c) Usability d) Flexibility	

20.How many classif	fication scheme	es have been developed fo	or NFRs ?	[]
a) Two	b)Three	c) Four d) Five		
21.Which is not one	of the types of	prototype of Prototyping	Model?	[]
a) Horizontal Proto	b) Ver	rtical Prototype c) Diago	onal Prototype d) Domain	Prototype
22.Which one of the	following is no	ot a phase of Prototyping	Model?	[]
a) Quick Design	b) Coding	c) Prototype Refineme	ent d) Engineer Product	
23.RAD Model has _				[]
a) 2 phases	b) 3 phases	c) 5 phases	d) 6 phases	
24.SDLC stands for				[]
a) Software Develop	ment Life Cycl	e b) System Deve	elopment Life cycle	
c) Software Design I	Life Cycle	d) System Desig	gn Life Cycle	
25.Which model can	be selected if u	user is involved in all the	phases of SDLC?	[]
a) Waterfall Model	b) Prototypin	g Model c) RAD Model	d) both b & d	2
26.The level at which	h the software u	uses scarce resources is _		[]
a) Reliability	b) Efficiency	c) Portability	d) All of the above	
27.Which is the way	where the CMI	MI process Meta model o	can be represented?	[]
a) A continuous mod	lel b) A s	staged model c) Both	A & B d) None of the	ne above
		C ,	Depment and it includes	
	ign paradigm is	a part of software develo		[]
28.The software desi a) Design, Maintenan	ign paradigm is nce, Programmi	a part of software develo	opment and it includes b) Coding, Testing, Integrat	[]
28.The software desia) Design, Maintenanc) Requirement gather	ign paradigm is nce, Programmi ering, Software	a part of software develo	opment and it includes b) Coding, Testing, Integrat d) None of the above	[]
28. The software desia) Design, Maintenarc) Requirement gather29. The software become	ign paradigm is nce, Programmi ering, Software omes more pop	a part of software develo ing l design, Programming d ular if its user interface is	opment and it includes b) Coding, Testing, Integrat d) None of the above	[] ion []
28. The software desia) Design, Maintenarc) Requirement gather29. The software become	ign paradigm is nce, Programmi ering, Software omes more pop nple to use	a part of software develo ing l design, Programming d ular if its user interface is	opment and it includes b) Coding, Testing, Integrat d) None of the above s	[] ion []
 28. The software desi a) Design, Maintenan c) Requirement gather 29. The software becomes a) Attractive b) Simplement 	ign paradigm is nce, Programmi ering, Software omes more pop nple to use s of	a part of software develo ing l design, Programming d ular if its user interface is c) Responsive in short	opment and it includes b) Coding, Testing, Integrat d) None of the above s	[] ion [] ove
 28. The software desital a) Design, Maintenand c) Requirement gather 29. The software becomes a) Attractive b) Simulation 30. Software consists a) Set of instructions 	ign paradigm is nce, Programmi ering, Software omes more pop nple to use s of + operating pro	a part of software develo ing l design, Programming d ular if its user interface is c) Responsive in short ocedures	opment and it includes b) Coding, Testing, Integrat d) None of the above s	[] ion [] ove []
 28. The software desital a) Design, Maintenand c) Requirement gather 29. The software becomes a) Attractive b) Simulation 30. Software consists a) Set of instructions 	ign paradigm is nce, Programmi ering, Software omes more pop nple to use s of + operating pro	a part of software develo ing l design, Programming d ular if its user interface is c) Responsive in short ocedures	opment and it includes b) Coding, Testing, Integrat d) None of the above s time d) All mentioned ab	[] ion [] ove []
 28. The software desitant a) Design, Maintenant c) Requirement gather 29. The software becomes a) Attractive b) Simulations b) Software consists a) Set of instructions b) Programs + document d) Set of programs 	ign paradigm is nce, Programmi ering, Software omes more pop nple to use s of + operating pro- nentation + oper	a part of software develo ing l design, Programming d ular if its user interface is c) Responsive in short ocedures	 opment and it includes b) Coding, Testing, Integrated) None of the above s time d) All mentioned above c) Programs + hardware matrix 	[] ion [] ove []

32.Which SDLC acti	vity does the user initia	ates the request for a d	esired software product?[]
a) Requirement gathe	ering b) Implement	ation c) Disposition	d) Communication
33.What is a measure	of how well a compu	ter system facilities lea	rning? []
a) Usability	b) Functionality	c) Reliability	d) None of the above
34.The process toget	her the software requir	ements from Client, A	nalyze and Document is known
as			[]
a)Requirement engine	eering process b) Red	quirement elicitation pr	rocess
c) User interface requ	airements d) Sof	îtware system analyst	
35.Who manages the	effects of change thro	ughout the software pr	ocess003F []
a) Software project tr	acking and control	b) Software configur	ation management
c) Measurement		d) Technical reviews	
36.Abbreviate the ter	m CMMI		[]
a) Capability Maturit	y Model Integration	b) Capability Model	Maturity Integration
c) Capability Maturit	y Model Instructions	d) Capability Model	Maturity Instructions
37.First level of proto	otype is evaluated by _	·	[]
a) Developer	b) Tester	c) User	d) System Analyst
38. Which of the item	s listed below is not or	ne of the software engi	neering layers? []
a) Process	b) Manufacturing	c) Methods	d) Tools
39.What is the main a	aim of Software engine	eering?	[]
a) Reliable software		b) Cost effective soft	ware
c)Reliable and cost e	ffective software	d) None of the above	
40.For the best Softw	vare model suitable for	the project, in which c	f the phase the developers
decide a roadmap	for project plan?		[]
a) Software Des	ign b) System An	alysis c) Coo	ding d) Testing
41.How many number	ers of maturity levels in	n CMM are available?	[]
a) 3	b) 4	c) 5	d)6
42.Design phase is fo	llowed by		[]
a) Coding	b) Testing	c) Maintenance	d)None of the above.

43.CMM model in Software	Engineering is	a technique of		[]
a) Develop the software.	b) Im	prove the software process.		
c) Improve the testing proces	s. d)All	of the above.		
44. Which design defines the	logical structu	re of each module and their	interfaces that is	used to
communicate with other n	nodules?			[]
a)High-level designs b) Arc	hitectural desi	igns c) Detailed design d) All mentioned at	oove
45. Which tools are used in In	nplementation	, Testing and Maintenance?	?	[]
a) Upper case tools b) Low	ver case tools	c) Integrated case tools	d) None of th	e above
46.Find out which phase is no	ot available in	SDLC?		[]
a) Coding b) Test	ing	c) Maintenance	d) Abstractio	n
47.Who deliver the technical	skills that are	necessary to engineer for a	product or an app	lication?
a) Project managers b) Prac	titioners	c) End users	d) Customers	
48. Which phase is refers to the	ne support pha	se of software developmen	t?	[]
a) Acceptance Phase b) Test	ing	c) Maintenance	d) None of th	e above
49.Which model is also called	d as the classic	e life cycle or the Waterfall	model?	[]
a) Iterative Development	b) Lin	ear Sequential Developme	nt	
c) RAD Model.	d) Inc	remental Development		
50. Which document is create	d by system ar	nalyst after the requirement	s are collected fro	m
Various stakeholders?				[]
a)Software requirement speci	fication	b) Software requirement	validation	
c) Feasibility study		d)Requirement Gathering	5	
51. Which helps software eng	ineers to bette	r understand the problem the	ney will work to so	olve? []
a) Design engineering b) So	oftware engine	ering c) Requirements en	gineering d) bot	h a and b
52.Software engineers referre	ed to as			[]
a) System engineers b) ana	lyst in IT wor	d c) customers d)	both a and b	

53.Requirements engineering begins with inception –a task that defines []
a) problem coincide b) scope of the problem
c) scope and nature of the problem d) none of the above
54.Requirements engineering process is accomplished through execution of []
a) 5 distinct functions b) 6 distinct functions c) 7 distinct functions d) all the above
55.Distinct functions of requirement engineering process []
a) inception b)elicitation c)elaboration d)all the above
56.Requirement engineering establishes a solid base for []
a)customer needs b) design and construction c) end users d) none of the above
57. Without requirement engineering resulting software has a high probability of not meeting []
a) system engineers b)user needs c) customer needs d) both b and c
58. Which is the component of larger system domain? []
a) software b)hardware c)software and hardware d)none of the above
59. The priorities that guide and will have a profound impact on resulting design []
a) information b) functions c) behaviours d) all of the above
60.Stakeholders are []
60.Stakeholders are []a) business managersb) marketing peoplec) both a and bd) none of the above
a) business managers b) marketing people c) both a and b d) none of the above
a) business managersb) marketing peoplec) both a and bd) none of the above61.At project inception intentis to establish a[]
a) business managersb) marketing peoplec) both a and bd) none of the above61.At project inception intentis to establish a[]a) basic understanding of the problemb) feasibility analysis
a) business managersb) marketing peoplec) both a and bd) none of the above61.At project inception intentis to establish a[]a) basic understanding of the problemb) feasibility analysis[]c) both a and bd) none of the above
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a) business managersb) marketing peoplec) both a and bd) none of the above $61.At \text{ project inception intent is to establish a}}[]a) basic understanding of the problemb) feasibility analysis[]a) both a and bd) none of the above[]62.The information obtained from the customer during[]a) inceptionb) analysisc)elicitationd)both a and c$
a) business managersb) marketing peoplec) both a and bd) none of the above $61.At project inception intent is to establish a[]a) basic understanding of the problemb) feasibility analysis[]c) both a and bd) none of the above[]62.The information b tained from the customer during[]a) inceptionb) analysisc)elicitationd)both a and c63.Problems that help us understand why requirements elicitation[]$

				~ 1 5 7
65. The information	obtained from the cu	stomer during ince	ption and elicitation is re	fined _[]
a) during elicitation	b) c	luring elaboration		
c) during inception	and elicitation d) a	all of the above		
66.The requirement	s engineering activity	focuses on develo	ping a technical model o	f[]
a) software engineer	ring b) software featu	ures c) software	constraints d) all of the	above
67.Problems of unde	erstanding the custom	ners are not comple	etely sure of	[]
a) what is needed	b) poor understand	ling of capabilities	and limitations	
c) both a and b	d)none of the above	ve		
68.Software enginee	ers ask a set of contex	t free questions dis	scussed in	[]
a) elicitation	b) elaboration	c) inception	d) all the above	
69.Software enginee	ering action that begin	ns during		[]
a) communication a	ctivity b) modelin	g activity c) both	a and b d) all of t	he above
70.Requirements en	gineering like all oth	er software enginee	ering must be adapted to	the needs of
				[]
a) the process	b) the project c) the	he people doing the	e work d) all of t	he above
71. Designing and b	ouilding computer sof	tware is		[]
a) challenging	b)creative	c) either a or b	d) both a	and b
72.Which is an anal	ysis modeling action?	?		[]
a) elaboration	b) specification	c) validation	d) negotiation	
73.The work produc	ets produced as a cons	sequence of require	ements engineering are as	ssessed for
quality				[]
a)during specification	on b) during validatio	n c) both a and b	d) none of the ab	ove
74.Requirements va	lidation examines the	e specification to en	nsure that all software rec	quirements
have been stated	as			[]
a)unambiguously	b) inconsistencies	c) omissions	d) all of the above	
75. The validates re-	quirements includes _			[]
a) software engineer	rs b) custome	rs c) users	s d) all of t	he above

76. The term specification means		_		[]
a) different things to different peo	ople	b) set of gra	phical models	
c) omissions		d) all of the	above	
77.Each requirement is assigned	a			[]
a) behavior b) unique i	dentifier	c) both a and b	d) none of the above	
78.Requirement management is a	set of act	ivities		[]
a) helps the project team identify		b) control and track	c requirements	
c) both a and b		d) none of the abov	/e	
79.SCM means				[]
a) software configuration manage	ement	b) scientific config	uration management	
c) system configuration managen	nent	d) none of the abov	7e	
80.Possible traceability tables of	requireme	nts management		[]
a) features traceability table	b) sub	osystem traceability to	able	
c) interface traceability table	d) all	the above		
81. Which identifies the source of	each requ	irement?		[]
a) source traceability table	b) sub	osystem traceability t	able	
c) features traceability table	d) all	the above		
82. Which table indicates how req	uirements	are related to one an	other?	[]
a) source traceability table	b) sub	osystem traceability t	able	
c)dependency traceability table	d)inte	rface traceability tab	le	
83. Which traceability table show	s how requ	uirements relate to be	oth internal external system	em
interfaces?				[]
a)source traceability table	b) sub	osystem traceability t	able	
c) dependency traceability table	d) inte	erface traceability tab	le	
84.In software engineering which	defines a	function of a system	or its component	[]
a) non functional requirements	b) fun	ctional requirements		
c) specific functional requirement	ts d) all	the above		

85. In system engineering what specifie	s criteria that can be used to judge the operation of the
system rather than specific behaviou	ur []
a)non functional requirements	b) functional requirements
c) specific functional requirements	d) none of the above
86.Non functional requirements of soft	ware engineering are categorized into []
a) 1 b) 2 c) 3	d) 4
87.Two categories of non functional rec	[]
a) execution qualities b) functional	qualities c) evolution qualities d) both a and c
88.Execution qualities are	[]
a) security b)usability	c) maintainability d) Both a and b
89.Evolution qualities are	[]
a) testability b) maintainability	c) extensibility d) all the above
90.URD stands for	[]
a) user revolution document	b) user requested document
c)user requirement document	d) all of the above
91. The URD can be used as a guide for	[]
a) planning b) timetables	c) testing d) all the above
92.SRS stands for	[]
a) software requirements specification	b) system requirements specification
c) status requirements specification	d) none of the above
93.SRS establishes basis for an agreeme	ent between []
a) customer and contractors b)	customer and marketing
c) suppliers and marketing d)	none of the above

94. SRS is a communication tool between[]a) customer and contractorsb) suppliers and marketingc) stakeholders and designersd) customers and marketing

95.Specific goals of SRS []	
a) facilitating reviews b) describing scope of work	
c) providing a reference to software designers d)Any one of the above	
96.IRS stands for []	
a) interrupt requirement specification b) interface requirement specification	
c) internal resource service d) interface requirement system	
97.Feasibility study focused on []	
a) goal of the organization b)objectives of organization	
c) terms and conditions of organization d) maintenance of organization	
98. Features of SRS []	
a) user requirements are expressed in natural language	
b) design description should be written in pseudo code	
c) both a and b d) none of the above	
99.A software is widely accepted if it is []	
a) easy to operate b) quick in response	
c) effectively handling operational errors d) all the above	
100.A well performing software system must also be equipped with []	
a) attractive, clear b) consistence c) both a and b d)none of the above	
101. The Unified Modeling Language (UML) has become an effective standard for software	
modeling. How many different notations does it have? []	
a) Three b) Four c) Six d) Nine	
102. Which model in system modelling depicts the dynamic behaviour of the system? []	
a) Context Model b) Behavioural Model c) Data Model d) Object Model	
103.Which model in system modelling depicts the static nature of the system? []	
a) Behavioural Model b) Context Model c) Data Model d) Structural Model	el
104. Which of the following diagram is not supported by UML considering Data-driven	
modelling? []	
a) Activity b) Data Flow Diagram (DFD) c) State Chart d) Compon	ent

105 al	lows us to infer that d	ifferent members of c	lasses have some common
characteristics.			[]
a) Realization b) Ag	ggregation c) G	eneralization d)	Dependency
106Classes as	re used to create the ir	nterface that the user s	sees and interacts with as
the software is used.			[]
a) Controller	b) Entity	c) Boundary	d) Business
107.The UML was designed	d for describing	·	[]
a) object-oriented systems	b) architectural des	ign c) SRS	d) Both a & b
108.Which of the following	view shows that the s	system is composed o	f interacting processes at
run time?			[]
a) physical	b) Development	c) Logical	d)Process
109. The state transition diag	gram		[]
a) depicts relationships betw	veen data objects	o)depicts functions th	at transform the data flow
c) indicates how data are tra	ansformed by the syste	em	
d)indicates system reaction	s to external events		
110.Control flow diagrams	are		[]
a) needed to model event dr	riven systems	b)required for all s	systems
c) used in place of data flow	v diagrams	d) useful for mode	elling user interfaces
111.A change becomes	because of	of close presence of d	ata and functions []
a) Localized	b) Private	c) Global	d) Accessible
112.Interaction Diagrams d	epict the	_ Behaviour of the sy	ystem []
a) Static	b) Dynamic	c) Active	d)None of the above
113.In Sequence Diagrams	the time required by the	he receiver object to j	process the message is
denoted by an			[]
a) Activation Box	b) Simple Box	c) Arrow	d) None of the above

114.Most software c	ontinues to be custom built be	ecause	[]
a) Software is easier	to build without using someo	ne else's components	
b) Off the shelf softw	vare components are not com	monly available	
c) Component reuse	is common in the software we	orld	
d) Reusable component	ents are too expensive to use		
115.An state transitio	on can only occur when trigge	ered by a(n)	. []
a) actor	b) collaboration attempt	c) event	d)none of the given
116.An object or clas	ss may further be classified or	n the basis of	[]
a) Behaviour Driven	attributes b) Da	ata Driven attributes	
c) Responsibility Dri	ven attributes d) Al	ll of the above	
117.A public Interfac	ce provides a way for with oth	her Classes	[]
a) Communication	b)Accessibility	c) Reaching	d)All of the above
118.DFD Notation c	ontains		[]
a) Data Store	b)External Agents	c) Processes	d) All of the above
119.Requirement eng	gineering mainly deals with th	he of th	e system []
a) definition phase	b) development pha	se c)maintenan	ce d) none of the given

120. Given below are some statements associated with data flow diagrams. Identify the correct

statement from among them	[]
a) Data flow is made use of to model what systems dob) Flows of data can take place from a process to a sinkc) All processes have to be levelled or decomposedd) Context diagram shows the major system processes	
121.A better Design has an objective achieve	[]
a) High Cohesion b) Low Cohesion c) Low Coupling d)High cohesion and Low co	oupling
122. The output of this design process is a description of the	[]
a) Software Architecture b) Software Code c) Software d) None of the above	•
123.Flow charts represents the	[]
a) Sequence b)Random c) Parallel d) Non of above	

124.Asynchronous r	nassages are denoted			[]
a) Half Arrow	b) Simple Line	c) Full Arrow	d) Non of above	2
125.In sequence Dia	gram events are organ	ized in a	time line	[]
a) vertical	b) horizontal	c) Vertical and Hor	rizontal d)None	of above

Signature of the Faculty

Signature of HOD

Malla Reddy Engineering College (Autonomous) Maisammaguda, Dhulapally (Post via Kompally), Secunderabad – 500 100.

II B.TECH - II Semester (MR18) I MID EXAMNATIONS

Subject: Web Technology

Subject code:

Faculty: Mr. A. Lakshman, Dr. R. P. Ram Kumar

MODULE-I

S No	Question	Blooms Taxonomy Level	co
1	Explain the various functions used in PHP with examples.	Understanding	1
	OR		
2	Demonstrate with an example for the PHP script to add and remove users	Understanding	1
	from a MySQL table.		
3	Summarize the various operators supported by PHP?	Understanding	1
	OR		
4	Illustrate the control structures in PHP with examples.	Understanding	1
5	Categorize various file operations on text files in PHP.	Analyzing	1
	OR		
6	List and explain the database connectivity steps in PHP with reference to	Analyzing	1
	MySQL.		
7	Illustrate with an example, how to execute a SELECT query in PHP?	Understanding	1
	OR	-	
8	Demonstrate a PHP program for a simple calculator.	Understanding	1

MODULE-II

S No	Question	Blooms Taxonomy Level	co
1	Explain document structure description with example code in XML.	Understanding	2
	OR		
2	Extend the features of XML namespaces and explain how are they declared?	Understanding	2
3	Summarize the various types of XML parsers.	Understanding	2
	OR		
4	Compare and contrast DOM parser with SAX Parser.	Understanding	2
5	Illustrate with a program to Collect the student's details such as, register	Understanding	2

Branch: CSE

	number, name, subject and marks using forms and generate a DTD for		
	this XML document.		
	OR		
6	Outline the features of XML Schema. State its purpose and list its advantages over DTD.	Understanding	2
7	Identify the need for 'XML Parser'. Explain with an example.	Applying	2
/	identify the need for AME Parser. Explain with an example.	Applying	4
	OR	÷	
8	Develop a XSLT program to display the employee details in a table	Applying	2
	format.		

MODULE - III

S No	Question	Blooms Taxonomy Level	со
1	Explian the potential advantages do servlets have over CGI programs.	Understanding	3
	OR		
2	Summarize the life cycle of a java servlet with a neat diagram.	Understanding	3
3	Develop a simple servlet that reads three parameters from the form data.	Creating	3
	OR	1	1
4	Elaborate the differences between Generic Servlet and HttpServlet.	Creating	3

Malla Reddy Engineering College (Autonomous) Maisammaguda, Dhulapally (Post via Kompally), Secunderabad – 500 100.

II B.TECH - II Semester (MR18) I MID EXAMNATIONS

Subject: Web Technology Subject code:

Branch: CSE

Faculty: Mr. A. Lakshman, Dr. R. P. Ram Kumar

 PHP Stands for A) Php Hypertext Pro C) Php Hypermarkup 			rtext Preprocessor rmarkup Processor	[]
2. PHP issA) Server-side		C) Middle-side	D) Out-side	[]
	B) Client Computer	C) Server Computer	D) It depends on PH	[IP scr] ripts
4. PHP Scripts starts A) <php> </php>		C) ?php ?php	D)	[]
5. Which of the follo A) Out	owing statements print B) Write		D) Display	[]
	ement must be end wit B) ; (semicolon)		D) : (colon)	[]
	e variables name starts B) & (Ampersand)		D) \$ (Dollar)	[]
8. In PHP Language A) True	e variables are case sen B) False	sitive C) Depends on websi	ite D) Depends	-] rver
9. In PHP a variable A) True	e needs to be declare be B) False	efore assign C) Depends on websi	ite D) Depends	[on se] rver
10. Which of the follo A) Local	owing is not the scope B) Global	of Variable in PHP? C) Static	D) Extern	[]
11. What is the use ofA) It returns the typeC) It returns the length	-	PHP? B) It returns the value D) It returns the subs	-	[]
12. Which of the follo A) + (Plus)	owing is the Concatena B) . (dot)	ation Operator in PHP? C) & (Ampersand)	? D) % (Perce	[ntage])
13. Which of the following the	lowing is not PHP Loo	ps?		[]

A) while	B) do while	C) for		D) do for		
A) Search for a nun	of strpos() function in F aber within a string racter/text within a string			a Spaces within a strin Capitalized string/text with	-] string
15. Where setcookie A) Before tag	e() function must appea B) After tag	r in PH C) In 1		D) Anywhere	[]
	hash (#) sign mean in PF that are commented out ion declaration.		B) It indicates D) No uses in	s variable declaration. PHP.	[]
17. How to define aA) \$variable_nameC) \$variable_name	= value		ariable_name = ariable_name a		[]
18. The uses of strcA) It compare stringC) It compare string				excluding case only lowercase	[]
19. What will be the A) int	e result of combining a s B) float	tring w C) stri		a type in PHP? D) double	[]
20. Data for a cooki A) In ISP Computer C) In Server Compu		B) In	User's Comput lepends on PHI		[]
21. PHP is a A) User	_ typed language. B) Loosely	C) Sei	rver	D) System	[]
22. What does fopeA) It used to open fC) It used to open f			used to open Re used to open Re	emote Server emote Computer	[]
23. Where session_ A) Anywhere	start() function must app B) With <html> tag</html>			D) Before <html> ta</html>] g]
	PHP Interpreter do? anguage to System Lang HTML and PHP files	guage B) Creates conne D) All of thes		[Serv] er
25. Which of the fo	llowing is used to add co	omment	ts in PHP?		[D]

A) // B) /* ... */ C) & ... & D) Only A & B

26. What does sprintf() function do in PHP?A) it sends output to a variableC) it sends output to a variable converting into string 1		e output of program program converting into str	[ing]
27. Variables are case-sensitive in PHP?A) TrueB) False			[]
28. Which function displays the information aA) info()B) sysinfo()	about PHP? C) phpinfo()	D) php_info()	[]
29. What does isset() function do in PHP?A) There is no such function in PHPC) It checks whether variable is free or not	B) It checks whetherD) It checks whether		[tegei] r
	ough HTML files of Above		[]
31. The filesize() function returns the file sizeA) bitsB) bytes	e in C) kilobytes	D) gigabytes	[]
32. Which one of the following PHP functionA) fileltime()B) filectime()	n is used to determine C) fileatime()	a file's last access tim D) filetime()	.e? []
33. Which one of the following function is caA) file()B) arrfile()	apable of reading a fil C) arr_file()	e into an array? D) file_arr()	[]
34. Which one of the following function is caA) file_contents()B) file_get_contents()		e into a string variable D) file_get_content()]
35. Which one of the following function is can from a file?A) fgets()B) fget()	apable of reading a sp C) fileget()		cters [s]
36. Which one of the following function outportsA) filewrite()B) fwrite()	puts the contents of a C) filewrites()	string variable to the sp D) fwrites()	pecif [fied]
37. Which two predefined variables are usedA) \$GET & \$SETB) \$_GET & \$_SETC) \$_GET & \$_SETD) GET & SET	S_SET	on from forms?	[]
38. When you use the \$_GET variable to collA) noneB) only you	lect data, the data is v C) everyone	isible to D) selected few	[]
39. When you use the \$_POST variable to coA) noneB) only you	ollect data, the data is C) everyone	visible to D) selected few	[]

40. Which variable is A) \$BOTH	s used to collect form of B) \$_BOTH	lata sent with both the C) \$REQUEST	GET and POST metho D) \$_REQUEST	ods? []
41. Which one of the information?A) GET	e following should not B) POST	be used while sending C) REQUEST	passwords or other ser D) NEXT	-	e]
42. How many prede A) 1	efined variables does Pl B) 2	HP use to authenticate C) 3	a user? D) 4	[]
43. Which of the foll i) \$_SERVER['PHP_ iii) \$_SERVER['PHI A) i) and ii)	_AUTH_USER']. P_AUTH_PU'].	PHP use to authenticate ii) \$_SERVER['PHP iv) \$_SERVER['PHP C) i) and iv)	_AUTH_USERS']. P_AUTH_PW'].	[]
44. Which function i A) header()	s used to verify whether B) footer()	er a variable contains a C) inset()	value? D) isset()	[]
45. The authentication the server documeA) Inside		h stores username and C) Within	password should be st D) None of the ment	[]
46. Which directive A) file_uploads	determines whether PH B) file_upload	IP scripts on the server C) file_input	can accept file upload D) file_intake	ls? []
A) Delete the previor		first task executed by a B) Start a new sessio D) Handle the session	n	? []
48. Which one of the A) PHPSESSID	e following is the defau B) PHPSESID	It PHP session name? C) PHPSESSIONID	D) PHPIDSESS	[]
49. What is the defau the new pages areA) 360		that cached session pag C) 3600	ges are made available D) 1800	befor [re]
50. Which one of the A) start_session()	e following function is B) session_start()	used to start a session? C) session_begin()	D) begin_session()	[]
51. What does XML A) eXtra Modern Lin D) X-Markup Langu	nk B) eXtensible Mark	up Language C) Exam	ple Markup Language	[]
	-	ation which defines the on="A.0"?> C) xml</td <td></td> <td>[</td> <td>]</td>		[]

D) None of the above

53. Which statement is true?A) All the statements are true B) All XML elements must have a closing tagC) All XML elements must be lower case D) All XML documents must have a DTD				
54. Is it easier to process XML than HTML? A) Yes B) No C) Sometimes D) Can't say	[]		
55. Which of the following programs support XML or XML applications? A) Internet Explorer 5.5 B) Netscape D.7 C) RealPlayer. D) both A and B				
56. Kind of Parsers are	[]		
A) well-formed B) well-documented C) non-validating and validating D)none of the abo	ve			
57. Well formed XML document meansA) it contains a root element B) it contain an element C) it contains one or more elementD) must contain one or more elements and root element must contain all other elements	[ents]		
58.Comment in XML document is given by A) B) ! C) D)	[]		
59. When processing an output XML, "new line" symbolsA) are copied into output "as is", i.e. "CR+LF" for Windows, CR for Macintosh, LF for B) are converted to single LF symbol C) are converted to single CR symbol D)are discard				
60. Which of the following strings is a correct XML name? A) _myElement B) my Element C) #myElement D) None of the above	[]		
61.Which of the following strings are a correct XML name? A) xmlExtension B) xslNewElement C) XMLElement#123 D) All				
62. Which of the following XML fragments are well-formed? A) xml? B) xml version="A.0"? C) xml encoding="JIS"? D) xml encoding="A.0"?	[ng="			
63. What are the predefined attributes A) xml:lang B) xml:space C) both D) none.	[]		
 64 For XML document to be valid A) document need to be well formed also C) document need to be well formed & valid with well formedness B) document need not to be well formed also D) document validity has no relation 				
65 Valid XML document means (most appropriate)	[]		

A) the document has root element

B) the document contains atleast one or more root element

C) the XML document has DTD associated with it & it complies with that DTDD) Each element must nest inside any enclosing element property

66 XML uses the feat A) HTML	ures of B) XHTML	C) VML	D) SGML	[]
67 XML document ca A) IE C.0	an be viewed in B) IE B.0	C) IE 6.0	D) IE X.0	[]
A) XML uses a DTD	describing XML data, how? to describe the data iption node to describe data	B) XML uses XSL to D) Both A and C	o describe data	[]
69 What does DTD st A) Direct Type Defin C) Do The Dance		B) Document Type I D) Dynamic Type D		[]
70 DTD includes the specifications consist A) the browser name C) entity declarations		up that can be used wi B) the size of elemen D) element declaration	nt name	ent, t [the]
A) <firstelement>sor <secondelement>and </secondelement></firstelement> B) <firstelement>sor <secondelement> and C) <firstelement>sor</firstelement></secondelement></firstelement>	other text goes herene text goes hereother text goes herene text goes here other text goes hereme text goes here	ement> nt> lement>]]
A) <myelement mya<br="">B) <myelement mya<br="">C) <myelement mya<="" td=""><td>wing XML fragments are wel .ttribute="someValue"/> .ttribute=someValue/> .ttribute='someValue'> .ttribute="someValue'/></td><td>l-formed?</td><td></td><td>[</td><td>]</td></myelement></myelement></myelement>	wing XML fragments are wel .ttribute="someValue"/> .ttribute=someValue/> .ttribute='someValue'> .ttribute="someValue'/>	l-formed?		[]
A) <myelement mya<="" td=""><td>attributes have multiple value httribute="value1 value2"/> httribute="value1" myAttribute</td><td></td><td></td><td>[</td><td>]</td></myelement>	attributes have multiple value httribute="value1 value2"/> httribute="value1" myAttribute			[]

C) <myelement myattribute="value1, value2"></myelement> D) attributes cannot have multiple values		
74 Which of the following XML fragments are well-formed? A) <myelement myattribute="value1 <= value2"></myelement> B) <myelement myattribute="value1 & value2"></myelement> C) <myelement myattribute="value1 > value2"></myelement> D) None of the above	[]
 75 The use of a DTD in XML development is: A) required when validating XML documents B) no longer necessary after the XML editor has been customized C) used to direct conversion using an XSLT processor D) a good guide to populating a templates to be filled in when generating an XML documatically 	[nent]
76 Parameter entities can appear inA) xml fileB) xsl fileC) Both 1 and 2D) dtd file	[]
77 Attribute standalone="no" should be included in XML declaration if a document:A) is linked to an external XSL stylesheetB) has external general referencesC) has processing instructionsD) has an external DTD	[]
78 In XMLA) the internal DTD subset is read before the external DTDB) the external DTD subset is read before the internal DTDC) there is no external type of DTDD) there is no internal type of DTD	[]
79 Disadvantages of DTD areA) DTDs are not extensibleB) DTDs are not in to support for namespacesC) there is no provision for inheritance from one DTDs to anotherD) All the Above	[]
80 To use the external DTD we have the syntax A) xml version="A.0" standalone="no"? DOCTYPE DOCUMENT SYSTEM "order.dtd"? B) xml version="A.0" standalone="yes"? DOCTYPE DOCUMENT SYSTEM "order.dtd"? C)) xml version="A.0" standalone="no"?	[]

DOCTYPE DOCUMENT "order.dtd"? D) xml version="A.0" standalone="yes"? DOCTYPE DOCUMENT SYSTEM "order.dtd"?		
81 To add the attribute named Type to the <customer> tag the syntax will be A) <customer attribute="" type="exelent"> B) <customer attribute="exelent" type=""> C) <customer attribute_type="exelent" type=""> D) <customer type=" exelent"></customer></customer></customer></customer></customer>	[]
82 The syntax for parameter entity is A) ENTITY % NAME DEFINITION B) < ENTITY % NAME DEFINITION> C) ENTITY \$ NAME DEFINITION D) < ENTITY % NAME DEFINITION>	[]
 83 You can name the schema using the name attribute like A) <schema attribute="schema1"></schema> B) <schema nameattribute="schema1"></schema> C) <schema nameattri="schema1"></schema> D) <schema name="schema1"></schema> 	[]
84 The default model for complex type, in XML schemas for element isA) textOnlyB) elementOnlyC) no default typeD) both 1 & 2	[]
85 Microsoft XML Schema Data types for Hexadecimal digits representating octates A) UID B) UXID C) UUID D) XXID	[]
86 A schema describesA) grammerB) vocabularyC) datatype of XML document and StructureD) All the above	[]
 87 Microsoft XML Schema Data Type "boolean" has values A) True ,False B) True ,False or 1,0 C) 1,0 D) any number other then zero and zero 	[]

88 Simple type Built into Schema "data' represent a data in[]A) MM-DD-YYB) Dd-MM-YYC) YY-MM-DDD) YYYY-MM-DD
89 In simple Type Built into XML schema Boolean type holds [] A) True, False B) 1,0 C) both A. & B D) True/False and any number except 0
90 In simple type built into XML schema type flat has single precision of floating point [] A) 16 bit B) 32 bit C) 8 bit D) 4 bit
91 The XML DOM object is[]A) Entity ReferenceB) EntityC) Comment ReferenceD) Comment Data
92 Attribute of the document interface in DOM is/are[A) doctypeB) implementationC) documentElementD) All the above
93 The default model for complex type, in XML schemas for element is[A) textOnlyB) elementOnlyC) no default typeD) both a & b
94 To create a choise in XML schemas, we use the[A) <xsd:select> elementB) <xsd:multi> elementC) <xsd:choise> elementD) <xsd:single> element</xsd:single></xsd:choise></xsd:multi></xsd:select>
95 The XSL formating object use to hold the contents of the body of a list item is[A) list-blockB) list itemC) list-item-bodyD) list-item-label
96 To create a data island we use theHTML element[]A) <xml>B) <dataisland>C) <island>D) <xmlisland></xmlisland></island></dataisland></xml>
97 To Bind the HTML elements with DSO we use attribute[]A) DATASOURCEB) DATASRCC) DATAFIELDD) Both a & b
98 To bind the HTML element <input/> Type in text with the datasource "dsoCustomer" we use [] A) <input datafield="#dsoCustomer" type="TEXT"/> B) <input datasrc=" dsoCustomer" type="TEXT"/> C) <input datasrc=" #dsoCustomer" type="TEXT"/> D) <input datafld=" #dsoCustomer" type="TEXT"/>
99 XML DSOs has the property for the number of pages of data the recordset contains[A) countB) numberC) pageCountD) pageNumber
100 Whats so great about XML?[A) Easy data exchangeB) High speed on networkC) Only B is correctD) Both A & B

101 A deployment descriptor describesA) web component response settingsC) web component request objects	B) web component settingsD) All of the above	[]
102 Dynamic interception of requests and rA) servlet containerB) servlet contextC) servlet contextD) servlet filt	0	9 by	[]
103 The life cycle of a servlet is managed bA) servlet contextB) servlet contextC) the supporting protocol (such as http or	ntainer	[]
104 The include() method of RequestDispa A) sends a request to another resource like B) includes resource of file like servlet, jsp C) appends the request and response object D) None of the above	servlet, jsp or html or html	[]
105 The method forward(request,response)A) return back to the same method from whB) not return back to the same method from navigation continuesC) Both A and B are correctD) None of the above		[page] es
106 What is the limit of data to be passed fA) 4KB) 8KC) 2K	rom HTML when doGet() method is used? D) 1K	[]
107 What are the mechanisms available in A) contextInit(), contextService(), contextI B) contextInitialized((),contextDestroyed() C) contextInitialized(), contextService(), co D) None of the above	Destroyed()	[]
appropriate session object when A) the session is completedB) the	its parameter [getSession(true)] it will return e session object is passed to another method e session is existing	the []
109 Which of the following are the session A) URL rewriting, using session object, usi B) URL rewriting, using session object, usi C) URL rewriting, using servlet object, using D) URL rewriting using request object, using	ing response object, using hidden fields ing cookies, using hidden fields ng response object, using cookies	[]

D) URL rewriting, using request object, using response object, using session object

 110 What's the difference between servlets and applets? Select all the possible options. 1.Servlets executes on Servers, where as Applets executes on Browser 2.Servlets have no GUI, where as an Applet has GUI 3.Servlets creates static web pages, where as Applets creates dynamic web pages 4.Servlets can handle only a single request, where as Applet can handle multiple requests A) 1,2,3 are correct B) 1,2 are correct C) 1,3 are correct D) 1,2,3,4 are correct]
111 In which advantage of servlet, Servlets are managed by JVM so no need to worry ab memory leak, garbage collection etc.?A) Better performance B) Portability C) Robust D) Secure	out []
112 When you are send the parameters using get method how do send them?A) By CommaB) By ampresendC) By question markD) None of the above] e]
113 In HTTP Request Which Asks for the loopback of the request message, for testing?A) put and get B) options C) delete D) trace	[]
114 How to send data in get method?A) We cannot B) Through urlC) Through PayloadD) None of the above	[]
115 In the HTTP Request method which is non-idempotent?A) GET B) POST C) BOTH A & B D) None of the above	[]
116 Give the examples of Application Server from the following? A) Tomcat B) JBoss C) Weblogic D) Both JBoss and Weblogic	[]
117 Abbreviate the term MIME?A) Multilevel internet Mail ExtensionC) Multiuse information Mail ExtensionD) None of the above	[]
118 Which packages represent interfaces and classes for servlet API?A) javax.servletB) javax.servlet.httpC) Both A & BD) None of the above] e]
119 The web container maintains the life cycle of a servlet instance, give the lifecycle of servlet?A) Servlet class is loaded B) Servlet instance is createdC) init, Service, destroy method is invoked D) All mentioned above	a []
120 Which http method sent by browser that asks the server to get the page only A) get B) post C) put D) option	[]
121 In RequestDispacher, which method is used to sends the same request and response to another Servlet?A) forward() B) sendRedirect() C) Both A & B D) None of the above	obje [cts]

122 Which object is created by the web container at time of deploying the project?				[]
A) ServletConfig	B) ServletContext	C) Both A & B	D) None of the above	e	
	1	1 4 4 6	6.4 6.11	0	
123 An attribute in S	ervlet is an object that	can be set, get from on	ie of the following sco	pes?	
A) session scope	B) request scope	C) application scope	D) All the above	[]
124 How many techniques are used in Session Tracking?]
A) 4 B) 3 C) 2	D) 5	C		-	-
125 Which cookie it	is valid for single sessi	ion only; it is removed	each time when user c	loses	the

A) Persistent cookie B) Non-persistent cookie C) Both A & B D) None of the above