MR11/ MR12

Code No.: 20524

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS) (Affiliated to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD)

Gundlapochampally (H), Maisammaguda (V), Medchal (M), Medchal-Malkajgiri (Dist), Hyderabad

IV B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2018

Subject: MOBILE COMPUTING

Branch: CSE

Time:	3 hours	Max. Marks: 75
Answe	er any FIVE Questions of the following	5x15M=75M
1.	a) Discuss the novel applications of mobile communication	[7M]
	b) Describe the security services offered by GSM	[8M]
2.	a) Describe the system architecture of IEEE 802.11	[8M]
	b) Briefly discuss about routing in mobile Adhoc networks	[7M]
3.	a) What is tunneling in mobile IP	[7M]
	b) Explain about packet Delivery and Hand over management	[8M]
4.	Explain in detail about mobile TCP?	[15M]
5.	a) Explain Query processing in detail	[7M]
	b) Write short note on Data recovery process	[8 m]
6.	Explain about selective tuning and indexing methods?	[15M]
7.	a) Explain the Applications and Challenges of MANET	[5M]
	b) Write short note on Mobile Agents and Service Discovery	[10M]
8.	a) With a neat diagram Explain the WAP architecture	[7M]
	b) Write short note on Java card	[8M]

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MR12

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IV B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2018

Subject: Linux Programming

Branch: CSE

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions of the following

5x15M = 75M

- 1. a) Discuss the significance of filters and identify some filter commands of your choice. Explain them briefly.
 - b) Write a short note on du and df utilities

[8+7]

- 2. Write briefly on case control structure in bash with examples. Write briefly on " | | " operator in bash.
- 3. a) Explain about UNIX Directory file API.

[7+8]

- b) Explain file descriptor with an example.
- 4. a) What are the signals that are not ignored or blocked? Explain the reason behind it with an Example. [7M]
 - b) Illustrate SIGKILL and SIGINT with an example program.

[8M]

- 5. Compare IPC functionality provided by pipes and message queues. What are the advantages and drawbacks of each? Explain briefly.
- 6. Explain about UNIX kernel support for the following
 - (a) Semaphores
- (b) shared memory

[7+8]

- 7. How do you improve the performance of system using multithreading.
- 8. Write the socket system calls for connection less protocol?

MR12

[5M+5M+5M]

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IV B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2018

Subject: Design Patterns

Branch: CSE

Time:	3 hours	Max. Marks: 75	
Answer any FIVE Questions of the following 5x15M=75M			
1.	a) Describe organization of design pattern catalog. Draw a diagram to show	v relationships	
	among design patterns b) What is Design pattern? How to use a design pattern	[7M]	
2.	Explain in detail about Lexi's spelling checking and Hyphenation problem	[15M	I)
3.	a) Explain about Singleton design pattern	[8M]	1
	b) How to provide an interface for creating families of related or dependent without specifying their concrete classes? Explain	t objects [7M]	
4.	a) Discuss the following implementation issues of Bridge pattern:i) Only one implementer ii) Sharing implementers	[7 M]	I
	b) List and explain any four implementation issues of Composite Pattern [8	BMJ	
5.	a) Discuss about Flyweight design pattern	[8M]	1
	b) Explain sample code and known uses of Façade design pattern	[7M]	1
6.	a)How to provide a way to access the elements of an aggregate object sequ	entially	
	without exposing its underlying representation? Explain	. [8M]	
	b) Briefly explain about Chain of responsibility design pattern	[7M]	l
7.	a) What is the intention of the Strategy pattern? What is its applicability	[5M]	
	b) Assume that you are writing an algorithm. Explain with the help of an e	xample how	
	Template method pattern can help you, Note: Sample code is essential.	[10M	1]
8.	Explain the following		
		CAR C. AR C. AR C	#T 1

a) Refactoring b) Patterns in software c) A common design vocabulary

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IV B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, DECEMBER-2018

Subject: Computer Graphics

Branch: CSE

Time: 3 hours

Max. Marks: 75

5x15M=75M

Answer any FIVE Questions of the following

- 1.4) Provide four examples each for Input and output devices used in Computer Graphics. Briefly describe technical specifications of any one of them...?
 - b) Explain CRT n detail with a neat diagram.

[8+7M]

- 2. a) List the data structures used in scan-line polygon fill algorithm. Illustrate the procedure with an example.
 - b) Compare the flood-fill and boundary fill algorithms.

[8+7]

3. a) Briefly explain the basic 2-D geometric transformations in detail

(7M)

b) Explain in detail about composite Transformations

(8M)

- 4. Explain Sutherland Hodgeman algorithm for polygon clipping with an example.
- 5. a) Explain the properties of B spline curves
 - b) Enumerate the steps in polygon rendering method.

[8+7]

- 6. a) Compute rotation matrix for rotating (x, y, z) by an angle θ about Y-axis?
 - b) Write a short note on the perspective projections clearly explaining vanishing points and view volumes? [9+6M]
- 7. Write about any two image space methods that are used to deal with visible surface detection [15]
- 8. a) What are key frame system and how do they function? What are cels and how are they used in animation.
- b) Write a program to generate the in-betweens for the key frame, film requires 24 Frames per seconds, and graphically terminals are refreshed at the rate of 30 to 60 frames per second, using linear interpolation. [7+8]