

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

(Affiliated to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD)
Gundlapochampally (H), Maisammaguda (V), Medchal (M), Medchal-Malkajgiri (Dist), Hyderabad

IVB.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER - 2017**SUBJECT: COMPUTER GRAPHICS****(BRANCH: CSE)****Time: 3 Hours****Max Marks:75****Answer any 5 questions****5 x15=75M**

1. Explain in detail about
 - a) Raster scan systems (8M)
 - b) Random scan systems (7M)
2. Write Pseudocode for DDA. algorithm. Using a suitable example, explain working of this algorithm?
Write the scan line fill algorithm and use the algorithm to fill polygon bounded by lines joining vertices: (1,1), (2,3), (4,2) and (5,1).? (7 M +8M)
3. a) Give the homogeneous co-ordinate transformation matrices for the following transformations:
 - i) Entire picture three times as large
 - ii) Counter clock-wise rotation about the origin, by 90 degrees. (8 M +7 M)b) Derive the transformation matrix to rotate a point about an arbitrary point.
4. a) Define window and viewport, write in detail about window -to- viewport co-ordinate transformation (7M)
- b) Discuss in detail how to clip lines using Cohen Sutherland Line clipping algorithm (8M)
5. a) Enumerate the major differences between Bezier curve, B-spline curves. [9 M]
- b) Explain about (3 M +3 M)
 - i) Polygon meshes
 - ii) Polygon Tables.
6. a) Explain 3-D rotation about an axis that is parallel to the co -ordinate axis (7M)
- b) Discuss about parallel and perspective projections (8M)
7. a) Explain about the different methods available in visible surface detection method. (7 M)
- b) What are Octrees and why are they useful? How are they implemented? (8 M)
8. a) Write a morphing program to transform a sphere into a specified polyhedron.
- b) What are the issues involved in design of a story board layout with accompanying key frames for an animation of a single polyhedron..? (7 M +8M)

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IVB.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, OCTOBER - 2017**SUBJECT: DATA WAREHOUSING AND DATA MINING**

(BRANCH: CSE)

Time: 3 Hours

Max Marks: 75 Marks

Answer any 5 question

5 x 15=75M

1. a) Explain major issues involved in data mining ? [8+7]
b) Explain in detail about cleaning?
2. a) Write a short notes on following servers [3+3+3+6]
i)ROLAP
ii)MOLAP
iii)HOLAP
b) Explain data warehouse architecture with neat sketch?
3. a) Write the Apriori algorithm for discovering frequent item sets for mining boolean association rules ? [8+7]
b) Write the FP-growth algorithm ?
4. a) Explain classification by back propagation ? [7+8]
b) How to evaluate accuracy of a classifier, explain with help of confusion matrix ?
5. a) Discuss the categorization of major clustering methods ? [8+7]
b) Explain K-Means algorithm ?
6. a) Explain trend analysis ? [7+8]
b) Explain sequence pattern in biological data ?
7. a) What are data mining tasks performed on text database ? [7+8]
b) Describe mining of complex data objects ?
8. a) What are the social impacts of data mining ? [7+8]
b) Explain how data mining is used for retail industry ?

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IVB.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, OCTOBER – 2017**SUBJECT: Linux Programming****(BRANCH: CSE)****Time: 3 Hours****Max Marks: 75 Marks****Answer any 5 questions****5 x 15 M=75M**

1. a) Explain about process utilities and disk utilities? [7+8]
b) What are the addresses and operations performed by sed?
2. a) Explain about 'here' document with an example? [7+8]
b) Explain about different conditional expressions available in shell programming ?
3. a) Write short notes on formatted I/O functions? [7+8]
b) Write about hard and symbolic links. Give an example for each?
4. a) Explain about abort(),sleep(), alarm() and pause() functions? [8+7]
b) Write in detail about Orphan Process?
5. a) What are the named pipes? Explained in detail? [7+8]
b) What are message queues? Explain the concept of Kernel support for messages?
6. a) Explain about the file locking with semaphores? [8+7]
b) Explain about the kernel support for shared memory?
7. a) what is multithreading? Explain the benefits of multithreaded programming? [7+8]
b) Explain about the thread synchronization with mutexes?
8. Write the socket system calls for connection oriented protocol? [15]

