

Gurdasdevi Institute of Management and Technology (GIMT)
(Affiliated with IKG. Punjab Technical University)

ASSIGNMENT

Course	M.Sc(IT)	Semester	3rd
Mcode	78404	Subject Code	PGCA1937
Subject	Cloud Computing		

Answer the following Questions in about 500 words each. (Write Any Three) (Long Questions)

1. Discuss the different cloud deployment models and scenarios in detail.
2. Discuss the cloud reference model. Compare benefits and challenges/issues related to cloud computing?
3. a) Why virtualization is considered as the key technology behind cloud computing?
b) Explain the taxonomy of various virtualization techniques.
4. a) Define scaling and why it is considered as an important factor in capacity planning?
b) Write short notes on resource ceilings and system metrics.
5. Describe the security issues related to cloud computing? Discuss the importance of encryption and compliance in ensuring data security in cloud data centres.
6. Discuss the Google AppEngine architecture and its applications.

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ASSIGNMENT

Course	M.Sc(IT)	Semester	3rd
Mcode	78395	Subject Code	PGCA1919
Subject	Computer Graphics		

Answer the following Questions in about 500 words each. (Write Any Three) (Long Questions)

1. What are the different color models being used in Computer Graphics? Write down their usage in real life and illustrate conversion of one color model to other using suitable equations.
2. What are the various steps for drawing an ellipse using Mid-Point Ellipse Algorithm? Calculate coordinate points for an ellipse having center at (30,60) and radius 10, using this algorithm.
3. When do you need composite transformations in computer graphics? Rotate a triangle having coordinates (3, 2), (5, 2) and (5, 6) around a fixed point (2, 1) on an angle of 90 degree in anti-clock wise direction.
4. What are the various applications of computer graphics? Illustrate.
5. Write down various steps of Liang-Barsky clipping algorithm. How it is advantageous over Cohen Sutherland line clipping algorithm? Illustrate with suitable diagrams and examples.
6. Write down various homogeous metrics for Rotation and Reflection in 3D space. Rotate a line having endpoints (3, 2, 6) and (6, 4, 9) around Y-axis and find new coordinates for the line.

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ASSIGNMENT

Course	M.Sc(IT)	Semester	3rd
Mcode	78393	Subject Code	PGCA1917
Subject	Discrete Structures & Optimization		

Answer the following Questions in about 500 words each. (Write Any Three) (Long Questions)

1. Minimize the four variable logic function using K-map:
 $f(A, B, C, D) = A B C'D + A' BCD + A' B' C' + A' B' D' + AC' + AB' C + B'$
2. Explain the concept of pigeon hole principle and also explain its properties.
3. Describe the concept of isomorphism and homomorphism with respect to graph theory by taking a suitable example.
4. What are the properties of a semi-group? Prove that $G = \{0,1,2,3,4,5,6\}$ is an abelian group of order 7 with respect to addition modulo 7.
5. Briefly explain the following with an example:
 - a) Euler circuit and Hamiltonian Graphs
 - b) Normal and Dihedral Groups
6. In a town of 10000 families it was found that 40% of families buy newspaper A, 20% family buy newspaper B, 10% family buy newspaper C, 5% family buy newspaper A and B, 3% family buy newspaper B and C and 4% family buy newspaper A and C. If 2% family buy a

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ASSIGNMENT

Course	M.Sc(IT)	Semester	3rd
Mcode	78397	Subject Code	PGCA1921
Subject	E- Commerce & Digital Marketing		

Answer the following Questions in about 500 words each. (Write Any Three) (Long Questions)

1. What are the applications of the e-commerce? What is the architectural framework for e-commerce?
2. What is digital token based electronic payment system? How the electronic, payment system is designed?
3. What is the application of EDI in business? What are the legal issues involved in it?
4. How successful is e-governance in India? What is the security issues involved?
5. Discuss in detail the major components of online marketing.
6. How online advertising and mobile marketing is evolving in the new digital era?