Exam Code: 105706 (20)

Paper Code: 6195

Programme: Bachelor of Science (Information Technology) Semester-VI

Course Title: Computer Graphics

Course Code: BITL-6111

Time Allowed: 3 Hours

Max Marks: 60

Note: Attempt five questions. Each question carries equal marks. Candidate are required to attempt at least one question from each section and fifth question can be attempted from any section.

SECTION A

- Define Computer Graphics. What are the types of Computer Graphics? Explain different application areas of Compute Graphics in detail. (12)
- a. Difference between Raster Scan and Random Scan.
 b. List different display devices? Explain the working of LCD monitor. (6+6)

SECTION B

3. What are the various line drawing algorithms? Explain the Bresenhem's Line drawing algorithm with an example. (12)

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 Write an algorithm to draw a circle using Midpoint Circle Drawing algorithm along with its derivation. Also plot a circle with centre (30,40) having radius 8 using circle midpoint method. (12)

SECTION C

- 5. a. What is the importance of homogeneous coordinates? Write matrices corresponding to various transformations in homogeneous coordinates.

 b. Explain the transformation when a point R (x,y) is retated by O about a fixed point O (h,k). Rotate a square
 - rotated by Q about a fixed point Q (h,k). Rotate a square A (1,1), B (3,1), C (3,3) and D (1,3) by an angle 45° keeping A as a fixed point. (6+6)
- 6. What is Clipping? Explain Cohen-Sutherland algorithm in detail with an example. (12)

SECTION D

- 7. Explain different types of 3D transformation in detail along with matrix representation. (12)
- 8. a. What is projection? Explain types of projection.
 b. What is Vanishing point? Explain One point perspective projection, Two point perspective projection and Three point perspective projection.

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Exam Code: 105706 (20)

Paper Code: 6196

Programme: Bachelor of Science (Information Technology)
Semester-VI

Course Title: Digital Marketing

Course Code: BITL-6112

Time Allowed: 3 Hours

Max Marks: 60

Note: Attempt five questions selecting at least one from each section, fifth question may be attempted from any section. All questions carry equal marks (12).

SECTION A

- 1. What is Marketing? Explain 4Ps of marketing. (12)
- 2. What is decision making process? Explain AIDAA model.

(12)

SECTION B

- 3. What is Search Engine Optimization? Discuss working of SEO. (12)
- 4. Explain Search Engine Marketing Auction models.

(12)

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SECTION C

5. What are the factors affecting Social Media Marketing?

6. Explain B2B and B2C Social media platforms.

(12)

SECTION D

7. What do you know about Digital Analytics?

(12)

8. What is Mobile Marketing? Discuss its working and types. (12)

SECTION A

What is Marketing? Explain 4Ps of marketing.
What is decision making amore 2 System 4 than

B BOTT YES

What is Search Engine Optimization? Discuss working of

Explain Search Engine Marketing Auction models.

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Exam Code: 105706 Paper Code: 6197

Programme: Bachelor of Science (Information Technology) Semester-VI

Course Title: Data Mining Tool

Course Code: BITM-6115

Time Allowed: 3 Hours

Max Marks: 30

Note: Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 6 marks

Section -1

- 1. Explain Confusion Matrix, Precision and recall in Machine Learning
- 2. Explain the terms: preparing the dataset, ARFF Format, Plot Histogram.

Section - II

3. Explain various steps required for preprocessing of data.

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4. Explain the steps to load various data steps into Weka and run aproroiri algorithm with different support and confidence values.

Section - III

- Explain J48 classification algorithm with examples using
 Weka.
- 6. Explain the terms a. Entropy values b. Kappa Statistics.

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reducing soft agencies Section — IV as established Stock

- Explore visualization features of Weka to visualize the clusters.
- 8. Explain clustering techniques available in Weka. 6

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