

**2211000106010002**  
**EXAMINATION AUGUST 2024 (PURAK EXAM)**  
**BACHELOR OF COMPUTER APPLICATIONS**  
**(SIXTH SEMESTER)**  
**601:FUNDAMENTALS OF CLOUD COMPUTING**

[Time: As Per Schedule]

[Max. Marks: 70]

**Instructions:**

1. **1. Fill up strictly the following details on your answer book**
  - a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATIONS (SIXTH SEMESTER)**
  - b. Name of the Subject: **601: FUNDAMENTALS OF CLOUD COMPUTING**
  - c. Subject Code No : **2211000106010002**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

**Q.1 ANSWER FOLLOWING IN SHORT [ANY 7]**

14

1. What is the relation between hypervisor and virtualization?
2. List out type of data used in big data. Give example of each.
3. Define Cloud computing. What is cloud in computing?
4. What is emulation?
5. Explain utility computing.
6. What all components are included in IaaS?
7. How Hybrid cloud is significant?
8. Explain OLTP
9. What is the difference between cloud and on-premises services?

**Q.2 Answer the following question**

14

1. Explain difference between IaaS and PaaS models.
2. Explain cloud storage devices.

**OR**

1. Discuss characteristics of cloud computing.
2. Explain public and private cloud with advantage and disadvantages.

**Q.3 Answer the following question (any 2)**

14

1. Explain SOA.
2. Discuss full and para virtualization in detail. What is the difference between them?
3. Explain cloud infrastructure components.

**Q.4 Answer the following question (any 2)**

14

1. What is Big Data? Explain characteristics of big data.
2. Discuss business and backup application of cloud.
3. Explain data warehouse. Compare it with Data Lake.

**Q.5 Answer the following question (any 2)**

14

1. Discuss data lake with its architecture.
2. Explain OLTP with advantages and disadvantages.
3. Explain CSA

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**2111000106010001**  
**EXAMINATION AUGUST 2024 (PURAK EXAM)**  
**BACHELOR OF COMPUTER APPLICATIONS**  
**(SIXTH SEMESTER)**  
**601 – 01 – COMPUTER GRAPHICS**

[Time: As Per Schedule]

[Max. Marks: 70]

**Instructions:**

1. Fill up strictly the following details on your answer book
  - a. Name of the Examination: **BACHELOR OF COMPUTER APPLICATIONS (SIXTH SEMESTER)**
  - b. Name of the Subject: **601 – 01 – COMPUTER GRAPHICS**
  - c. Subject Code No: **2111000106010001**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

**Q.1 Answer in Short. (Any Seven)**

**14**

- 1) Differentiate convex and concave polygon.
- 2) Differentiate bitmap and pixmap.
- 3) What do you mean by Homogeneous Coordinate System?
- 4) State the limitations of even odd method to perform polygon inside test.
- 5) Define Transformation. List out the types of transformation.
- 6) Define Reflection.
- 7) What is Aspect Ratio?
- 8) What is DVST?
- 9) What is frame buffer?

**Q.2 Answer in detail.**

**14**

- 1) Write a note on application areas of computer graphics. 7
- 2) Explain in detail: Refresh CRT 7

**OR**

- 2) Differentiate Beam Penetration and Shadow Mask method 7

**Q.3 Answer in detail. (Any Two)**

**14**

- 1) Write a note on Random Scan Display.
- 2) Explain the concept of Lines in Computer Graphics. Also Explain Line Caps.
- 3) List out different line drawing algorithms. Explain any one in detail.

**Q.4 Answer the following in detail.**

**14**

- 1) What is the use of Polygon inside Test? Explain any one in detail.
- 2) Compare flood fill and boundary fill algorithm of polygon.

**OR**

- 1) Write a note on Anti-aliasing.
- 2) Define Rotation. Explain Rotation about an arbitrary point.

**Q.5 Do as directed:**

**14**

- 1) Explain Scaling and Shearing of an object by giving example.

**6**

**OR**

- 1) What is Slope? Explain its types.

**6**

- 2) Attempt **any two** of the following:

**8**

- a. Give 3 X 3 homogeneous co-ordinate transformation matrix for the following:
  - i. Move object down by 4 unit and right by 2 unit.
  - ii. Scale X-Coordinate to make Two times as wide, rotate object clockwise by  $\frac{\pi}{2}$
- b. Give a single matrix to Scale an object in x direction to be one half as large and then rotate counter clockwise by  $\frac{\pi}{4}$
- c. Calculate Slope and Intercept of Line having two points P1(20,7) and P2(12,5).

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**2111000106020001**  
**EXAMINATION OCTOBER 2024 (ATKT EXAM)**  
**BACHELOR OF COMPUTER APPLICATIONS**  
**(SIXTH SEMESTER)**  
**E-COMMERCE AND CYBER SECURITY**

[Time: As Per Schedule]

[Max. Marks: 70]

**Instructions:**

1. Fill up strictly the following details on your answer book
  - a. Name of the Examination: **BACHELOR OF COMPUTER APPLICATIONS (SIXTH SEMESTER)**
  - b. Name of the Subject: **E-COMMERCE AND CYBER SECURITY**
  - c. Subject Code No: **2111000106020001**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

**Q.1 Answer in short (Any 7)**

**14**

1. What is data diddling?
2. Define Bots.
3. What ITA-2000?
4. Difference between B2B and B2C model.
5. Discuss DHCP.
6. What is web crawling?
7. Differentiate hackers and crackers.
8. What are digital switches?
9. Define smart card.
10. Discuss risk of E-payment system in brief.

**Q.2 Attempt any 2:**

**14**

1. Explain framework of Ecommerce.
2. What is I-way? Explain components of I-way.
3. Discuss E-commerce Organizational Application in detail.

**Q.3 Answer the following (any 2):**

**14**

1. Explain DOS and its types.
2. Explain Trojan, Virus and Worm Attacks.
3. Explain email related and financial crimes.

**Q.4 Attempt any 2: 14**

1. Explain types of SQL injections
2. Explain security on web.
3. Explain Cyber Squatting, Cyber Smearing, Cyber Stacking with suitable example.

**Q.5 Write short note on (any 2): 14**

1. Ethical Hacker
2. Man in middle attack
3. Transaction models
4. Firewall

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