

B.C.A. - II (CBCS Pattern) Semester-III
UBCAT302 - Paper-II : Computer Networks & Cloud Computing

P. Pages : 2

Time : Three Hours



GUG/W/24/11758

Max. Marks : 40

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- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram use supporting data wherever necessary.
 3. Avoid vague answers and write specific answers related to questions.

Either:

1. a) Explain guided (wired) and unguided (wireless) transmission media. 4
- b) What are the advantages and disadvantages of satellite transmission? 4

OR

- c) Differentiate between asynchronous and synchronous transmission. 4
- d) Define multiplexing and explain its types. 4

Either:

2. a) Describe digital network concept. 4
- b) Explain routing and traffic control in packet switching. 4

OR

- c) Describe the X.25 protocol and its application. 4
 - d) Explain following topologies. 4
- i) Bus ii) Tree

Either:

3. a) Explain the OSI model and its seven layers. 4
- b) What are the advantages and disadvantages of connectionless internetworking? 4

OR

- c) Describe System Network Architecture (SNA) and its components. 4
- d) What are the applications of router level protocols? 4

Either:

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|-----------|----|---|----------|
| 4. | a) | Define cloud computing and its application. | 4 |
| | b) | Explain the security concerns and concurrence in cloud computing. | 4 |

OR

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|----|---|----------|
| c) | What are the cloud computing security standards and protocols? Explain. | 4 |
| d) | Explain following cloud services. | 4 |
| 1) | PaaS | |
| 2) | SaaS | |

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|-----------|---|----------|
| 5. | Solve all the questions. | |
| a) | Explain parallel transmission. | 2 |
| b) | Write a note on circuit switching. | 2 |
| c) | Describe network security threats. | 2 |
| d) | Explain the concept of cloud scalability. | 2 |
