

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(S)

Max. Marks : 40

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- Notes :
1. All the questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagrams wherever necessary.
 3. Avoid vague answers and write specific answers related to the questions only.

Either:

1. a) What are the key terminologies associated with data transmission? Explain. 4
- b) Explain the role of Encoding in data transmission. 4

OR

- c) Explain the advantages of digital data transmission over analog data transmission. 4
- d) Describe the different types of line configurations used in data link control. 4

Either:

2. a) What is circuit switching? Differentiate between circuit switching and packet switching. 4
- b) Describe the role of nodes and links in communication network. 4

OR

- c) Explain the packet switching principles in detail. 4
- d) What are the key standards of LANs and MANs? Explain. 4

Either:

3. a) What do you mean by protocol? Explain the benefits of using layered protocol approach. 4
- b) Explain the role of Transport layer in the OSI model. 4

OR

- c) Differentiate between IPv4 and IPv6 in the TCP/IP protocol suit. 4
- d) How does connectionless internetworking differ from connection oriented internetworking? 4

Either:

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|-----------|----|---|----------|
| 4. | a) | What is cloud computing? Explain the concept in detail. | 4 |
| | b) | Explain the benefits of using cloud computing. | 4 |

OR

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|-----------|----|--|----------|
| | c) | Enlist and explain the application of cloud computing. | 4 |
| | d) | Discuss the regular issues related to cloud computing. | 4 |
| 5. | | Solve all the questions. | |
| | a) | What is data transmission and why it is essential in communication system? | 2 |
| | b) | Explain the optical fiber Bus with its application. | 2 |
| | c) | Enlist the seven layers of OSI. Give the example of presentation layer. | 2 |
| | d) | Discuss the different models of cloud computing. | 2 |
