

Bachelor of Computer Application (B.C.A.-II) (CBCS) Third Semester CBCS  
**UBCAT302 - Computer Networks & Cloud Computing Paper - II**

P. Pages : 2

Time : Three Hours



**GUG/W/18/11758**

Max. Marks : 40

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

**1. Either**

- a) Explain analog and digital data transmission in detail. 4
- b) What is mean by digital data communication? Explain its types in detail. 4

**OR**

- c) Explain various transmission media in detail. 4
- d) What is mean by flow controls & error controls & Explain in detail. 4

**2. Either**

- a) Differentiate between circuit switching & packet switching. 4
- b) What is mean by virtual circuit? Explain Datagram in detail. 4

**OR**

- c) Explain the following terms. 4
  - i) Bus Topology.
  - ii) Star Topology
- d) Differentiate between LAN & MAN Technology. 4

**3. Either**

- a) What are protocols? Explain the layered approach in detail. 4
- b) Explain OSI Model in detail. 4

**OR**

- c) Define Internetworking. What are principles of internetworking. 4
- d) Explain system Network Architecture in detail. 4

**4. Either**

- a) What are various applications of cloud computing? **4**
- b) What are hardware & Infrastructure requirements for cloud computing? **4**

**OR**

- c) What are intranets? Explain cloud first movers in the cloud. **4**
- d) Explain benefits & limitations of cloud computing. **4**

**5. Solve all the questions.**

- a) Explain data link control protocols in detail. **2**
- b) What is optical Fiber bus? **2**
- c) Explain the following terms. **2**
  - i) Physical and session layer.
  - ii) TCP/IP protocol suite.
- d) Explain Adware and shareware in short. **2**

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