## 002 / UBITT601.2 - Paper-I - Elective-II :
## Data Communication and Cloud Computing

P. Pages : 2 | | GUG/W/23/13313

Time : Three Hours | \*5149\* | Max. Marks : 40

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Notes : 1. All questions are compulsory and carry equal marks.
2. Draw a neat and labelled diagram wherever necessary.
3. Avoid vogue answers and write specific answer to question.

**Either:**

**1.** a) Define transmission. Explain the different data transmission modes. **4**

b) Explain the following. **4**
i) Co- axial cable.
ii) Fiber- optic cable.

**OR**

c) Explain the following. **4**
i) Flow control.
ii) Frros control.

d) Differentiate between synchronous and asynchronous transmission. **4**

**Either:**

**2.** a) What are the different switching methods used in communication. **4**

b) Explain the purpose of X. 25 protocol in detail. **4**

**OR**

c) Define Topology. Explain ring topology and also mention advantage and disadvantage of ring topology. **4**

d) Explain medium access control for LAN & MAN. **4**

**Either:**

**3.** a) What is protocol? Explain important characteristics of a protocol. **4**

b) Explain OSI layer model in detail. **4**

**OR**

c) Explain system network architecture in detail. **4**

d) Explain connection oriented internetworking potential in detail. **4**

**Either:**

**4.** a) Explain architecture of cloud computing in detail. **4**

b) Explain different challenges of cloud computing. **4**

**OR**

c) Explain different stake holders of cloud market in detail. **4**

d) Explain the following. **4**
    i) Cloud security.
    ii) Cloud services.

**5.** Solve all the questions.

    a) Explain multiplexing in brief. **2**

    b) Explain the Bus topology in brief. **2**

    c) Explain the concept of routing with bridges. **2**

    d) Define SAAS and PAAS in detail. **2**

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