

**S.D.E.**

**B.C.A. (2004 COURSE SEM- V : WINTER - 2017**

**SUBJECT: ADVANCE NETWORKING**

Day : **Thursday**

Date : **14/12/2017**

Time **10.00 AM TO 1.00 PM**

Max. Marks: 80

**W-2017-4173**

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**N.B.:**

- 1) Attempt any **FIVE** questions from **Section –I**. Each questions carries **10** marks
  - 2) Attempt any **TWO** questions from **Section –II**. Each question carries **15** marks.
  - 3) Answer to both the sections should be written in **SEPARATE** answer books.
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**SECTION-I**

- Q1** Explain Ethernet Technology in detail. (10)
- Q2** What is the purpose of subnet and supernet extensions? (10)
- Q3** Explain different WAN technologies. (10)
- Q4** What are reserved port numbers? Which port numbers are reserved and which port numbers are available for other applications? (10)
- Q5** What is internetworking? Explain the role of routers in interconnections of networks. (10)
- Q6** Write short notes on **ANY TWO**: (10)
- a) ARPANET
  - b) FDDI
  - c) Limited broadcast

**SECTION-II**

- Q7** How internet addresses are mapped to physical address? Explain ARP protocol in detail. (15)
- Q8** Explain the format of User Datagram Protocol (UDP). (15)
- Q9** How a TCP connection is established? Explain TCP segment format. (15)

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