

**B.TECH SEM – V (2007 COURSE) (COMPUTER ENGG.) :**

**SUMMER - 2018**

**SUBJECT : COMPUTER NETWORK & COMMUNICATION**

Day : **Wednesday**  
Date : **23/05/2018**

**S-2018-2661**

Time : **10.00 AM TO 01.00 PM**  
Max. Marks : 80

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**N. B. :**

- 1) **Q.No.1** and **Q.No.5** are **COMPULSORY**. Out of the remaining questions attempt **ANY TWO** questions from each section.
  - 2) Answers to both the sections should be written in **SEPARATE** answer books.
  - 3) Figures to the right indicate **FULL** marks.
  - 4) Assume suitable data if necessary.
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**SECTION – I**

- Q.1** a) List out various design issues in networking. [05]  
b) Describe the working of simple stop and wait protocol. [05]  
c) Explain in detail bluetooth technology. [04]
- Q.2** a) Explain ATM reference model. [07]  
b) Discuss about the following with neat sketch: [06]  
i) Bridges ii) Repeater iii) Switch iv) Router v) Hub
- Q.3** a) Describe in detail Go back – N protocol. [07]  
b) With neat sketch explain frame format of ppp. [06]
- Q.4** a) Explain persistent and non-persistent CSMA in detail. [07]  
b) Write a short note on : Collision free protocols. [06]

**SECTION – II**

- Q.5** a) Compare between circuit switching and packet switching. [05]  
b) Describe about the concept of socket. [05]  
c) Write a short notes on : SMTP. [04]
- Q.6** a) How you will differentiate between stream socket and raw socket? Discuss. [07]  
b) Compare IPV<sub>4</sub> and IPV<sub>6</sub>. [06]
- Q.7** a) Explain TCP protocol header. [07]  
b) Describe about flow control in transport layer. [06]
- Q.8** a) Explain the concept of static and dynamic web pages with example. [07]  
b) Write short note on: DHCP. [06]

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