



Seat No.	
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Set P

B.E. (E & TC) (Part – I) (CGPA) Examination, 2018
COMPUTER COMMUNICATION NETWORK

Day and Date : Thursday, 3-5-2018
Time : 2.30 p.m. to 5.30 p.m.

Max. Marks : 70

- N.B. :**
- 1) *Q. No.1 is **compulsory**. It should be solved in first 30 minutes in Answer Book Page No. 3. Each question carries one mark.*
 - 2) *Answer MCQ/Objective type questions on page no. 3 only. Don't forget to mention, Q.P. Set (P/Q/R/S) on top of page.*
 - 3) *Figures to the **right** indicate **full** marks.*
 - 4) *Use of calculator is **allowed**.*

MCQ/Objective Type Questions

Duration : 30 Minutes

Marks : 14

1. Choose the correct answer :

(1×14=14)

- 1) Which of the following statements about star topologies is false ?
 - a) A star topology is more reliable than a mesh topology
 - b) The HUB is a most critical node in a star network
 - c) Servicing and maintenance of a star network is relatively easy
 - d) None of these
- 2) UDP is _____ type of Protoco.
 - a) Connection oriented
 - b) Connectionless
 - c) Control
 - d) None
- 3) In the Stop-And-Wait protocol, waiting is for
 - a) Data
 - b) Acknowledge
 - c) Either (a) or (b)
 - d) Neither (a) nor (b)
- 4) _____ does not carry any sequence number in HDLC.
 - a) I-Frame
 - b) S-Frame
 - c) U-Frame
 - d) None
- 5) A subnet mask separates
 - a) Network ID and Host ID
 - b) Work groups from each other
 - c) Host ID
 - d) All of the above



- 6) IP multicast uses
- a) Class A address
 - b) Class C address
 - c) Class D address
 - d) None of the above
- 7) How many bytes is an Ethernet address ?
- a) 3
 - b) 4
 - c) 5
 - d) 6
- 8) Problem of mapping IP address to physical address is solved by
- a) ARP
 - b) RARP
 - c) DHCP
 - d) ICMP
- 9) ICMP is primarily used for
- a) error and diagnostic functions
 - b) addressing
 - c) forwarding
 - d) none of the mentioned
- 10) Special IP starting with 127 is used for
- a) Loopback testing
 - b) Broadcasting
 - c) Multicasting
 - d) None
- 11) In SMTP, the command to write receivers mail address is written with this command
- a) SEND TO
 - b) RCPT TO
 - c) MAIL TO
 - d) None
- 12) The size of IP address in IPv6 is
- a) 4 bytes
 - b) 128 bits
 - c) 8 bytes
 - d) 100 bits
- 13) Which of the following standards used for CSMA/CD LAN ?
- a) IEEE 802.3
 - b) IEEE 802.2
 - c) IEEE 802.5
 - d) IEEE 802.4
- 14) IEEE 802.3 uses _____ cable.
- a) 10Base5
 - b) 10Base2
 - c) 10BaseT
 - d) All of the above
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COMPUTER COMMUNICATION NETWORK**

Day and Date : Thursday, 3-5-2018
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Marks : 56

Instructions : 1) *Figures to the right indicate full marks.*
2) *Use of Calculator is allowed.*

SECTION – I

2. Attempt **any three** : **(4×3=12)**
- 1) Draw and explain about RS232 interface.
 - 2) Explain bit stuffing method of framing with suitable example.
 - 3) Explain the function of each layer in TCP/IP model.
 - 4) Write short note on subnet and subnet mask.
3. Attempt **any two** : **(8×2=16)**
- 1) Explain sliding window protocol in TCP. How error control is done in TCP ?
 - 2) Explain in detail on TCP congestion control techniques.
 - 3) Describe CSMA/CD in detail.

SECTION – II

4. Attempt **any three** : **(4×3=12)**
- 1) Write a short note on IEEE 802.4.
 - 2) Draw header for DHCP. What are its advantages over BOOTP ?
 - 3) Explain RARP header format.
 - 4) Explain the difference between Switch and Hub. What are active and passive hubs ?
5. Attempt **any two** : **(8×2=16)**
- 1) Explain Distance vector routing with its limitations.
 - 2) Write short note on :
 - 1) FTP
 - 2) TELNET
 - 3) Explain with suitable diagram DHCP state transition.