



PAR-003-0072002 Seat No. _____

M. C. A. (Sem. II) (CBCS) Examination

August / September - 2020

P2020 : Computer Network

Faculty Code : 003

Subject Code : 0072002

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- 1 The following questions from unit-1
- (A) Attempt the following objective questions : 4
- (1) Give full form of TAN.
 - (2) What is Digital signal?
 - (3) A computer communication technology that provides a way to interconnect multiple computers across short distance is _____.
 - (4) What is attenuation?
- (B) Attempt any **one** out of two from the following : 2
- (1) What is Noise? Explain various types of noise.
 - (2) What is a network?
- (C) Attempt any **one** out of two from the following : 3
- (1) Define LAN, MAN and WAN.
 - (2) Explain bit interval and bit rate. How to calculate bit rate ? Explain with example.
- (D) Attempt any **one** out of two from the following : 5
- (1) Explain Propagation Speed and waveforms.
 - (2) Explain distributed and collaborative computing model.

- 2** The following questions from unit-2
- (A) Attempt the following objective questions : **4**
- (1) Give full form of ISO and OSI.
 - (2) Name IEEE standard 802.11.
 - (3) OSI layer 3 name is : _____.
 - (4) Give the full form of LLC.
- (B) Attempt any **one** out of two from the following : **2**
- (1) Why are standards needed?
 - (2) What is the function of flow control at datalink layer ?
- (C) Attempt any **one** out of two from the following : **3**
- (1) Explain Connection-oriented mode, Connectionless mode.
 - (2) What is Segment sequencing, End-to-end flow control ?
- (D) Attempt any **one** out of two from the following : **5**
- (1) Explain how peer layer communicates.
 - (2) Explain functions of session layer.
- 3** The following questions from unit-3
- (A) Attempt the following objective questions : **4**
- (1) _____ is the fastest cable media of data transfer.
 - (2) _____ cable is approximately 0.5 inches (13 mm) in diameter.
 - (3) Which connector twisted pair cable uses?
 - (4) What is maximum range for Thick net cable?
- (B) Attempt any **one** out of two from the following : **2**
- (1) List reason for wireless network.
 - (2) What is range of thicknet cable?

- (C) Attempt any **one** out of two from the following : **3**
- (1) Write a note on fibreoptic cable.
 - (2) Explain characteristics of laser transmission.
- (D) Attempt any **one** out of two from the following : **5**
- (1) Explain characteristics of twisted pair cable.
 - (2) Explain time division multiplexing.
- 4 The following questions from unit-4
- (A) Attempt the following objective questions : **4**
- (1) Which is a layer 2 device?
 - (2) Give full form of CSMA/CA.
 - (3) For large networks which topology is used?
 - (4) Routers are used at which layer of OSI?
- (B) Attempt any **one** out of two from the following : **2**
- (1) What is a topology?
 - (2) What is Repeater?
- (C) Attempt any **one** out of two from the following : **3**
- (1) Explain bus topology.
 - (2) Differentiate Physical topology and Logical topology.
- (D) Attempt any **one** out of two from the following : **5**
- (1) Explain working of Link State Routing.
 - (2) Differentiate Hub and Switch devices.

- 5 The following questions from unit-5
- (A) Attempt the following objective questions : 4
- (1) UDP is a part of the _____ protocol suite.
 - (2) If my IP starts with 10.10.10, what is the class of my network ?
 - (3) Packets can be transmitted through a packet-switched network as independent packets. This kind of transmission is known as _____.
 - (4) Give the Full form of SMTP.
- (B) Attempt any **one** out of two from the following : 2
- (1) What is the SOCKET?
 - (2) Identify 3 UDP characteristics?
- (C) Attempt any **one** out of two from the following : 3
- (1) Explain use of ARP and RARP.
 - (2) What is the use of RIP.
- (D) Attempt any **one** out of two from the following : 5
- (1) What is the range of addresses in the classes of internet addresses?
 - (2) What is ICMP? Explain its use in TCP/IP protocol suit.
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