

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).

16. (a) Discuss about network hardware.  
Or  
(b) Write note on TCP/IP reference model.
17. (a) Explain the characteristics of Twisted pair and coaxial cable.  
Or  
(b) Discuss the importance of properties of Geostationery satellites.
18. (a) Illustrate about an unrestricted simplex protocol.  
Or  
(b) Describe the working one-bit sliding window protocol.
19. (a) Write note on distance vector routing algorithm.  
Or  
(b) Compare the data link layer with transport layer.
20. (a) Discuss the Domain Name system.  
Or  
(b) Mention the usage of MIME.

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Code No. : 41352 E Sub. Code : JMCA 62

B.C.A. (CBCS) DEGREE EXAMINATION, APRIL 2019.

Sixth Semester

Computer Application — Main

COMPUTER NETWORKS

(For those who joined in July 2016 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. \_\_\_\_\_ networks consists of many connections between individual pairs of machines.  
(a) point-to-point (b) broad cast  
(c) unicast (d) multicast.
2. \_\_\_\_\_ are privately-owner networks within a single building or campus of up to a feed kilometers in size.  
(a) WAN (b) MAN  
(c) LAN (d) Internet.
3. \_\_\_\_\_ media, which are those that provide a conduct from one device to another.  
(a) unguides (b) guided  
(c) wireless (d) unbounded.



4. Which transmission media is the most secure ( )  
 (a) wire (b) fiber  
 (c) wireless (d) guides.
5. \_\_\_\_\_ layer regulates the flow of data so that slow receivers are not Swamped by fast Senders.  
 (a) physical (b) datalink  
 (c) network (d) transport.
6. Data link layer to break that bit stream up into discrete \_\_\_\_\_.  
 (a) bits (b) bytes  
 (c) frames (d) flag.
7. \_\_\_\_\_ algorithm operate by having each router maintain a table giving the best known distance to each destination and which line to use to get there.  
 (a) Flooding  
 (b) Dijkstra's  
 (c) Distance Vector routing  
 (d) Shortest-Path.
8. \_\_\_\_\_ routing algorithm, each router computer a spanning tree covering all other routers.  
 (a) shortest path (b) multicast  
 (c) distance vector (d) flooding.
9. Which DNS client-maps an address to a name or a name to an address especially when required by host.  
 (a) resolver (b) mapper  
 (c) primary server (d) secondary server.
10. Which application level protocol plays a crucial role in carrying out the data definition and manipulation in addition to X 500 features.  
 (a) TCP (b) LDAP  
 (c) FTP (d) SMTP.

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### PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).

11. (a) Write note on wide area networks.  
 Or  
 (b) What are the design issues occur in computer networks?
12. (a) Describe the characteristics of Electromagnetic spectrum.  
 Or  
 (b) Write note on Radio transmission.
13. (a) How to use a Hamming code to correct burst errors?  
 Or  
 (b) Discuss the algorithm for check sum error detection code.
14. (a) Distinguish between Datagram subnet and virtual circuit subnet.  
 Or  
 (b) Explain the shortest path routing algorithm.
15. (a) Write note on public key digital signature.  
 Or  
 (b) Explain how data encryption standard works.

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