

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc DEGREE EXAMINATION MAY 2019
(Second Semester)

Branch - COMPUTER SCIENCE

ADVANCED COMMUNICATION NETWORK

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 1 = 10)

Which protocol is used to simultaneous transmission of a message to a group of recipients?

- (i) UDP (ii) TCP
(iii) SCTP (iv) IGMP

Which connecting devices has filtering capability?

- (i) Bridges (ii) Repeaters
(iii) Hub (iv) Routers

Choose the following one as component of Router.

- (i) Port (ii) N/W address
(iii) h/w address (iv) Routing table

Identify the message length of OSPF packets.

- (i) 8 bit (ii) 16 bit
(iii) 32 bit (iv) 64 bit

The following form is used to sending of same message to more than one receiver simultaneously.

- (i) multicasting (ii) unicasting
(iii) routing (iv) tunneling

Which protocol manages group membership?

- (i) ICMP (ii) ICP
(iii) IP (iv) IGMP

RARP request packets are

- (i) broadcast (ii) unicast
(iii) multicast (iv) unicast multicast

Find the server that provides mapping from physical address to logical address.

- (i) ARP (ii) RARP
(iii) NIC (iv) LAN

Which one is an enhanced version of inter networking protocol?

- (i) Mobile IP (ii) Internet IP
(iii) TCP (iv) UDP

10 Indicate the range of foreign agent address.

- (i) 130.45.6.7/16 (ii) 14.56.8.9/8
(iii) 200.4.7.14/24 (iv) 14.6.7.346/8

SECTION - B (25 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 5 = 25)

11 a Analyse the concept of session layer and presentation layer.

OR

b Discuss the concept of Repeater and hub.

12 a Classify static versus Dynamic Routing tables.

OR

b Illustrate the concept of MBONE.

13 a Illustrate the use of IGMP messages.

OR

b Discuss the concept of Checksum.

14 a Prepare RARP packet format with suitable illustration.

OR

b Evaluate the concept of ARP over ATM.

15 a Compare Double crossing and Triangle Routing.

OR

b Analyse the concept of IP protocol.

SECTION -C (40 Marks!)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 8 = 40)

16 a Analyse the concept of OSI Model-layers.

OR

b Classify the concept of Bridges and Routers.

17 a Compare unicast, multicast, broadcast with suitable illustrations.

OR

b Illustrate the concept of MOSPF and DVMRP.

18 a Elucidate the concept of IGMP Package.

OR

b Interpret the concept of ICMP.

19 a Explain ART package in detail.

OR

b Evaluate the concept of RARP server.

20 a Compare the different agent in Mobile IP.

OR

b Explain the issues of inefficiency in Mobile IP.