

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2023
(Fifth Semester)

Branch – INFORMATION TECHNOLOGY

COMPUTER NETWORKS

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

1. What is the full form of OSI?
 - i) Optical service implementation
 - ii) Open service Internet
 - iii) Open system interconnection
 - iv) Operating system interface
2. Which layer does the data link layer take packets from and encapsulate them into frames for transmission?
 - i) Transport layer
 - ii) Application layer
 - iii) Network layer
 - iv) Physical layer
3. Which one of the following is not a function of network layer?
 - i) Congestion control
 - ii) Error control
 - iii) Routing
 - iv) Inter-networking
4. Which layer is responsible for process to process delivery in a general network model?
 - i) Session layer
 - ii) Data link layer
 - iii) Transport layer
 - iv) Network layer
5. The packet of information at the application layer is called. _____
 - i) Packet
 - ii) Message
 - iii) Segment
 - iv) Frame

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

6. a Give the functions of network software.
OR
b Brief on guided media.
7. a Give your view on carrier sense multiple access.
OR
b Comment on sliding window protocol.
8. a Summarize the services offered by network layer.
OR
b Give the significance of leaky bucket algorithm.
9. a List and explain the functions of transport layer.
OR
b Differentiate TCP and UDP.
10. a Comment on DNS.
OR
b Illustrate the need of web security.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

11. a Discuss about TCP/IP model.
OR
b Explain the role of communication satellite.
12. a Discuss the services offered by data link layer.
OR
b Explain on the error detecting techniques.
13. a List and discuss the features of Network layer.
OR
b Comment on quality of service in networks.
14. a Interpret the features of TCP.
OR
b Comment on transport layer services.
15. a Infer on Email security.
OR
b Give the growth of multimedia with networking.

Z-Z-Z

END