

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022
(Fifth Semester)

Branch – COMPUTER SCIENCE

COMPUTER NETWORKS

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

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

- 1 Which type of topology is best suited for large businesses which must carefully control and coordinate the operation of distributed branch outlets?
(i) Ring (ii) Local area
(iii) Hierarchical (iv) Star
- 2 What kind of transmission medium is most appropriate to carry data in a computer network that is exposed to electrical interferences?
(i) Unshielded twisted pair (ii) Optical fiber
(iii) Coaxial cable (iv) Microwave
- 3 A collection of hyperlinked documents on the internet forms the ?
(i) World Wide Web (WWW) (ii) E-mail system
(iii) Mailing list (iv) Hypertext markup language
- 4 The location of a resource on the internet is given by its?
(i) Protocol (ii) URL (iii) E-mail address (iv) ICQ
- 5 The term HTTP stands for?
(i) Hyper terminal tracing program (ii) Hypertext tracing protocol
(iii) Hypertext transfer protocol (iv) Hypertext transfer program
- 6 Which software prevents the external access to a system?
(i) Firewall (ii) Gateway
(iii) Router (iv) Virus checker
- 7 Which one of the following is the most common internet protocol?
(i) HTML (ii) NetBEUI (iii) TCP/IP (iv) IPX/SPX
- 8 The term FTP stands for?
(i) File transfer program (ii) File transmission protocol
(iii) File transfer protocol (iv) File transfer protection
- 9 How many versions available of IP?
(i) 6 version (ii) 4 version (iii) 2 version (iv) 1 version
- 10 Which of the following servers allows LAN users to share data?
(i) Data server (ii) Point server
(iii) File server (iv) Communication server

Cont...

SECTION - B (25 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 5 = 25)

- 11 a Explain WAN.
OR
b Explain LAN.
- 12 a Describe wireless transmission.
OR
b Explain multiplexing.
- 13 a Classify the types of data link protocol.
OR
b Explain Sliding window protocols.
- 14 a Analyse Distance vector routing algorithm.
OR
b How to Store and forward packet switching?
- 15 a State the Elements of transport protocol.
OR
b Explain world wide web.

SECTION -C (40 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 8 = 40)

- 16 a Discuss the layers of OSI reference model.
OR
b Identify the Design issue for layers.
- 17 a Discuss about Guided transmission media.
OR
b Compare OSI layer and TCP/IP.
- 18 a Discover Error detection and correction techniques.
OR
b Outline the services of Data link layer.
- 19 a Categorize the types of Routing Metrics and cost.
OR
b Identify the Network layer design issues.
- 20 a Summarise Domain name system and Email service.
OR
b Examine the congestion control mechanism of OSI layer.

Z-Z-Z

END