PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022

(Fifth Semester)

Branch - COMPUTER SCIENCE WITH DATA ANALYTICS

	<u>COMPUTER NET</u>	WORKS
	Time: Three Hours	Maximum: 75 Marks
	SECTION-A (10 N	Marks)
	Answer ALL que	
	ALL questions carry EQU	AL marks $(10 \times 1 = 10)$
1.	A short range wireless network called without wires.	is used to connect the components
	(i) LAN	(ii) MAN
	(iii) WAN	(iv) Bluetooth
2.	io an annual (1)	
. .	is an agreement between the communicating parties on how communication is to proceed.	
	(i) Medium	ZIN T
	(iii) Protocol	(ii) Interface
	(m) Frotocor	(iv) Layers
3.	are used for cellular phone satellite and wireless LAN communications.	
	(i) Radio waves	(ii) Micro waves
	(iii) Infrared waves	(iv) None of the above
		(1V) None of the above
4.	cable consists of an inner core and a second conducting outer sheath.	
	(i) Twisted pair	(ii) Coaxial
	(iii) Fiber-optic	(iv) Shielded twisted pair
		() twicted pun
5.	Header of a frame generally contains	
	(i) Synchronization bytes	(ii) Addresses
	(iii) Frame identifier	(iv) All of these
6	Power 1 at 22	
6.	Error detection at the data link layer is achieved by	
	(i) Bit stuffing	(ii) Cyclic redundancy codes
	(iii) Hamming codes	(iv) Equalization
7.	A 4 byte IP address consists of	
	(i) Only network address	(ii) Only book adda
	(iii) Network address and host address	(ii) Only host address
	address	(iv) Network address and MAC
8.	The network layer protocol for internet is	
	(i) Ethernet	(ii) Internet protocol
	(iii) Hypertext transfer protocol	(iv) File transfer protocol
•		
9.	Which of the following are transport layer pro	
	(i) TCP and FTP	(ii) UDP and HTTP
	(iii) TCP and UDP	(iv) HTTP and FTP
10.	Application layer offers service.	
	(i) End to end	(ii) Process to process
	(iii) Both end to end and process to process	(iv) None of the above
	() = 1	(*.) * ione or min month

SECTION - B (25 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks $(5 \times 5 = 25)$

11. a) Bring out the types of computer networks.

OR

- b) State the connection oriented service primitives.
- 12. a) Narrate about fiber optic cables used in network.

OR

- b) Describe about geo-stationary satellites in detail.
- 13. a) Summarize the services provided to the network layer by the data link layer.

OR

- b) What do you know about Data Link Protocol?
- 14. a) Discuss about flooding in detail.

OR

- b) Describe IP protocol and its importance with example.
- 15. a) Summarize the HTTP methods with example.

OR

b) Explain WAP protocol stack in detail.

SECTION -C (40 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks $(5 \times 8 = 40)$

16. a) Enumerate TCP/IP reference model in detail.

OR

- b) Elucidate protocol hierarchies in detail.
- 17. a) Discuss about radio transmission and microwave transmission.

OR

- b) Elucidate wavelength division multiplexing and time-division multiplexing.
- 18. a) Discuss about sliding window protocol.

OR

- b) Write short notes on: 1.Error correcting codes
 2. Error Detecting codes
- 19. a) Explain the shortest path routing algorithm in detail.

OR

- b) Elucidate Broadcast Routing in detail.
- 20. a) Analyze the elements of transport protocols in detail.

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b) Explain TCP congestion control with example.

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END