Communications technology – 2022 IT A2 9626

Exp	lain how each of the following is used in a network.
(a)	web server
	[2]
(b)	mail server
	20
	[2]
(c)	print server
	10.0 ,0
	[2]

Packet switching is one way of transmitting data between computers in networks. The User Datagram Protocol (UDP) is a protocol used when creating data packets to send to other computers on the network.	
(a)	Explain how the contents of the header are used when sending a data packet using UDP.
	.0
	[6]
(b)	Describe the drawbacks of using UDP to send data over a network.
	[2]

3.	Nov/2022/Paper_31/No.6 Discuss the advantages and disadvantages of the use of microwave transmissions for communications.
	[8]

Bitı	Bit rate is a measure of how fast data can be sent from one device to another on a network.	
(a)	Describe how the bit rate of a video stream is measured on a network.	
	[2]	
(b)	Identify two factors that can affect the bit rate in data communication.	
	1	
	2	
	[2]	
	Day.	

Data stored on a network can be subject to different types of threats.
Explain how these threats can be detected.
Palpa.

Dat	Data can be sent over computer networks and the internet using tunneling.	
(a)	Give two reasons why tunneling is used for sending data.	
	1	
	2	
	[2	
(b)	Describe how tunneling transfers data over the internet.	
	[3	

7 .	Nov/2022/Paper_32/No.3
	Explain how an FTP server carries out its role in a computer network.
	[6
	Palpa

Mot	oile devices can use Near Field Communication (NFC) and Bluetooth to exchange data.
(a)	Describe three uses of NFC in mobile devices.
	1
	2
	2
	3
	[3]
(b)	Discuss the differences between NFC and Bluetooth when used for exchanging data between
	mobile devices.

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use by its designers and project managers so that they have access to the software resource they require.
Justify the use of the client-server model of networking in the company.

[8]

A company designs and manages the construction of buildings. It has a client-server network for

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	199	
	[2]	
(c)	print server	
	VO.0.	
	[2]	

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Packet switching is one way of transmitting data between computers in networks. The User

11. Nov/2022/Paper_33/No.2

......[3]

12.	Nov/2022/Paper_33/No.6
	Discuss the advantages and disadvantages of the use of microwave transmissions for communications.
	.0,
	[8]

13. Nov/2022/Paper_33/No.9 Bit rate is a measure of how fast data can be sent from one device to another on a network. (a) Describe how the bit rate of a video stream is measured on a network. (b) Identify two factors that can affect the bit rate in data communication. [2]

Data stored on a network can be subject to different types of threats.
Explain how these threats can be detected.
[6]
Palpo

15.	June/2022/Paper_31/No.2 Evaluate the use of a proxy server for web access in a school.

	[8]

Frame Relay is used in networks. (a) Explain why Frame Relay is used. (b) Explain the drawbacks of using Frame Relay.

16. June/2022/Paper_32/No.5

Email uses a system based on the client-server model.
Explain how emails are sent and received using this system.
[4]
Palpa

17. June/2022/Paper_32/No.8

Evaluate the use of a proxy server for web access in a school.
[8]

19. March/2022/Paper_32/No.1
Contrast the characteristics of local area networks (LANs) and wide area networks (WANs).
Palpa

20. March/2022/Paper_32/No.6

Microwave transmission is used to send data between devices at different locations.

(a)	Explain how microwaves are used to transmit data between devices.
	[3]
(b)	Describe four ways that microwave transmission is used in communication systems.
	[4]

E	arch/2022/Paper_32/No.4 Evaluate the use of a Virtual Private Network (VPN) when using the internet.
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