KPS INSTITUTE OF POLYTECHNIC 1st INTERNAL,5th SEMESTER -2023 SUBJECT: MOBILE COMPUTING

DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY

Full marks:20 Time: 1hr Date: Choose the correct alternative for the following (any five): [1x5=5] I. Which of the following technology uses wireless communication mode to exchange data or transfer data between several mobiles in the short-range? Bluetooth technology Mobile computing Ad hoc computing None of the mentioned II. Which of the following protocol enables access to the internet from a mobile device? HTTP (Hypertext Transfer Protocol) c. ISD (International Subscriber Dialing) WAP (Wireless Application Protocol) TCP/IP (Transmission Control Protocol) III. In mobile computing, HLR is the abbreviation of which the following? Home Live Register Home Location Register a. House Live Register d. House Location Register b. The packet mode data transfer service is offered by which of the following protocol? IV. a. TCP (Transmission Control Protocol) GPRS (General Packet Radio Service) c. GSM (Global System for Mobile d. None of the mentioned communication) ٧. What is the full form of SIM? Station Identity Module Subscriber Identity Module System Identity Module d. None of the above VI. What is Mobile communication? c. Allows to communicate from same Allows to communicate from different locations without the use of physical locations without the use of physical Allows to communicate from different Allows to communicate from same locations with the use of physical locations with the use of physical medium medium VII. Which of the following usually stores all user-related data that is also relevant to GSM mobile systems? CMR h. **HMR** d. SIM VIII. Which of the following is known as one of the responsibilities of mobile Switching Centre (or MSC) in cellular telephone

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Full marks: 20

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Time:

I.

IV.

VI.

systems?

a.

Choose the correct alternative for the following (any five):

Which of the following technology uses wireless communication mode to exchange data or transfer data between Т several mobiles in the short-range?

a. Bluetooth technology

Mobile computing

d. All of the above

h. Ad hoc computing

None of the mentioned d.

Which of the following protocol enables access to the internet from a mobile device? II.

a. HTTP (Hypertext Transfer Protocol)

Connection of mobile to PSTN

Connection of base station to MSC

ISD (International Subscriber Dialing)

WAP (Wireless Application Protocol)

TCP/IP (Transmission Control Protocol) d.

Connection of mobile to base stations

III. In mobile computing, HLR is the abbreviation of which the following? Home Live Register a.

House Live Register h.

Home Location Register c. d. House Location Register

The packet mode data transfer service is offered by which of the following protocol?

TCP (Transmission Control Protocol)

GPRS (General Packet Radio Service) c.

GSM (Global System for Mobile

None of the mentioned d.

communication) ٧. What is the full form of SIM?

Station Identity Module

Subscriber Identity Module

System Identity Module b.

None of the above d.

What is Mobile communication?

a. Allows to communicate from different locations without the use of physical medium

without the use of physical medium

Allows to communicate from different locations with the use of physical medium

Allows to communicate from same locations with the use of physical medium

Allows to communicate from same locations

VII. Which of the following usually stores all user-related data that is also relevant to GSM mobile systems?

VLR a.

c. CMR d.

HMR b.

SIM

VIII Which of the following is known as one of the responsibilities of mobile Switching Centre (or MSC) in cellular telephone systems?

Connection of mobile to PSTN

Connection of mobile to base stations

Connection of base station to MSC

All of the above

 a. What is the difference between data network and voice network? b. What is mobile computing? Advantages and limitation of mobile computing c. What is Bluetooth? How is Bluetooth useful in mobile computing? d. What is GSM? e. What is cell? Inswer the following questions (any one) [6x1= a. Discuss the architecture of a mobile telecommunication system using a suitable schematic diagram	2.Fill in the blanks		[1x5=5]
c. HLR stands for	a.	GSM stands for	
d. VLR stands for	b.	BSS stands for	
e. BTS stands for	C.	HLR stands for	
f. BSC stands for	d.	VLR stands for	
g. IMSI stands for	e.	BTS stands for	
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a. Discuss the architecture of a mobile telecommunication system using a suitable schematic diagram			
	4.Answer the followin	g questions (any one)	[6x1=6]
	а	Discuss the architecture of a mobile telecommunication system using a suitable schema	itic diagram
D. EXDIGIT THE UITELETT HAT UWATE COTTIDOTIETTS THAT ALE USED III A WITELESS HELWOLK!	b.		icic alagram.
c. Briefly explain how a call can be setup between two mobile phones?	C.		

2.Fill in the blanks		[1x5=5]
a.	GSM stands for	
b.	BSS stands for	
C.	HLR stands for	
d.	VLR stands for	
e.	BTS stands for	
f.	BSC stands for	
g.	IMSI stands for	
3.Answers the followi	ing questions (any three)	[2x2=4]
3.Answers the followi	ng questions (any three)	[2x2=4]
3.Answers the followi a.	What is the difference between data network and voice network?	[2x2=4]
-	What is the difference between data network and voice network? What is mobile computing? Advantages and limitation of mobile computing	[2x2=4]
a. b. c.	What is the difference between data network and voice network? What is mobile computing? Advantages and limitation of mobile computing What is Bluetooth? How is Bluetooth useful in mobile computing?	[2x2=4]
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