

MAJOR ELECTIVE COURSE -I : MOBILE COMPUTING

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Which of the following defines a network? (i) A single computing device (ii) A collection of interconnected devices (iii) A storage system (iv) A standalone application	K1	CO1
	2	Interpret the tier responsible for the user interface in a three-tier architecture. (i) Data Tier (ii) Network Tier (iii) Business Logic Tier (iv) Presentation Tier	K2	CO1
2	3	Select the device type supported by WAP. (i) Desktop computers (ii) Mobile devices (iii) Servers (iv) Laptops	K1	CO2
	4	Relate the WAP layer that provides application support. (i) WAE (ii) WDP (iii) WTP (iv) WTLS	K2	CO2
3	5	Recall the country where I-mode technology was first introduced. (i) USA (ii) Japan (iii) Germany (iv) India	K1	CO3
	6	Which of the following is NOT a characteristic of pervasive computing? (i) Embedded (ii) Transparent (iii) Context-sensitive (iv) Manual operation	K2	CO3
4	7	What does UDDI stand for in web services? (i) Universal Data Device Integration (ii) Universal Description, Discovery, and Integration (iii) Unified Data Design Interface (iv) User Defined Data Information	K1	CO4
	8	Name the technology that allows mobile devices to access web content. (i) Desktop web (ii) Mobile browser (iii) Satellite (iv) LAN	K2	CO4
5	9	Who made the first widely recognized smartphone? (i) Apple (ii) IBM (iii) Nokia (iv) Samsung	K1	CO5
	10	Which accessory is commonly used for audio output in smartphones? (i) Stylus (ii) Headphones (iii) Charger (iv) Screen guard	K2	CO5

Cont...

Answer **ALL** questions
ALL questions carry **EQUAL** Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Explain the characteristics of mobile computing.	K2	CO1
	(OR)			
	11.b.	Illustrate the architecture of client/server with neat diagram.		
2	12.a.	Examine the WWW architecture in mobile computing and justify the need and benefits of WAP.	K4	CO2
	(OR)			
	12.b.	Analyze the WAP architecture and explain its components.		
3	13.a.	Compare push-based and pull-based data architecture in WAP.	K4	CO3
	(OR)			
	13.b.	Analyze the various applications of pervasive computing.		
4	14.a.	Explain the architecture of web services using SOAP with an example.	K5	CO4
	(OR)			
	14.b.	Interpret the working of a Wi-Fi network with its key elements and features.		
5	15.a.	Explain the architecture of Symbian OS and discuss how it supports multitasking in smartphones.	K5	CO5
	(OR)			
	15.b.	Assess how smartphones support word processing and e-book reading.		

SECTION -C (30 Marks)

Answer **ANY THREE** questions
ALL questions carry **EQUAL** Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Explain the peer-to-peer architecture with neat diagram.	K2	CO1
2	17	List and explain the layers of WAP protocols stack.	K4	CO2
3	18	Examine the issues in pervasive computing.	K4	CO3
4	19	Evaluate the features and advantages of EDGE technology in mobile communications.	K5	CO4
5	20	Assess the significance of smartphone applications in everyday life.	K5	CO5

Z-Z-Z END