

--	--	--	--	--	--	--	--	--	--



GIET MAIN CAMPUS AUTONOMOUS GUNUPUR – 765022
B. Tech Degree Examinations, December – 2020
(Seventh Semester)

BITPC7020 – Mobile Computing
(Information Technology)

Time: 2 hrs

Maximum: 50 Marks

The figures in the right hand margin indicate marks.

PART – A: (Multiple Choice Questions)

(1 x 10 = 10 Marks)

- Q.1. Answer ALL questions [CO#] [PO#]
- a. Which of the following stores all the user-related data that is relevant for the GSM system in mobile computing? CO1 PO1
 (i) HLR (ii) SiM
 (iii) ELR (iv) VLR
- b. Most WLANs are based upon the standard— CO1 PO1
 (i) IEEE 802.2 (ii) IEEE 802.11
 (iii) IEEE 802.5 (iv) IEEE 802.15
- c. In which of the following Codes with specific characteristics can be applied to the transmission? CO2 PO1
 (i) GSM (ii) GPRS
 (iii) CDMA (iv) None of the above
- d. In piconet devices connected with the master is called CO2 PO2
 (i) Slaves (ii) Standby
 (iii) Parked (iv) None of the above
- e. Features of CODA is/are CO3 PO2
 (i) A disconnected operation for mobile computing (ii) Freely available under a liberal license
 (iii) High performance through client-side persistent caching (iv) All of the above CO3 PO1
- f. A group of cells without overlapping gaps is called — CO4 PO1
 (i) Cell (ii) Tessellate
 (iii) Mobile station (iv) None of the above
- g. What is Wired Equivalent Privacy (WEP)? CO4 PO1
 (i) Security algorithm for Ethernet (ii) security algorithm for wireless networks
 (iii) security algorithm for USB communication (iv) none of the mentioned
- h. IMEI stands for? CO4 PO2
 (i) Internal Mobile Equipment Identity (ii) International Mobile Equipment Identity
- i. Which of the following is not an OS for mobile? CO4 PO2
 (i) Palm (ii) Windows
 (iii) Mango (iv) Android
- j. NAT stands for CO3 PO1
 (i) network address transformer (ii) network address translator
 (iii) network address translation (iv) Both b and c above

PART – B: (Short Answer Questions)

(2 x 5 = 10 Marks)

Q.2. Answer ALL questions

[CO#] [PO#]

- | | | |
|--|-----|-----|
| a. List the different types of handover mechanisms used in GSM | CO1 | PO1 |
| b. Why CDMA is called spread spectrum and better than GSM? | CO2 | PO2 |
| c. What is the future direction of the Bluetooth standard? | CO3 | PO3 |
| d. What are the various protocols in a WAP protocol suite? | CO4 | PO2 |
| e. Distinguish between android OS and iOS. | CO4 | PO2 |

PART – C: (Long Answer Questions)

(6 x 5 = 30 Marks)

Answer ANY FIVE questions

Marks [CO#] [PO#]

- | | | | |
|---|-----|-----|-----|
| 3. List the advantages of mobile computing? | (6) | CO1 | PO1 |
| 4. What is a Hybrid Routing protocol? What is its advantage over the other classes of routing protocols? | (6) | CO1 | PO2 |
| 5. Illustrate packet delivery mechanism in Mobile IP network with neat diagram? | (6) | CO2 | PO2 |
| 6. Explain the Strategies of IPV6 wireless protocols | (6) | CO2 | PO3 |
| 7. Differentiate between Android application life cycle and Activity life cycle | (6) | CO3 | PO1 |
| 8. Explain the steps involved in creating the following Android applications (i)Static digital clock (ii)Phone Book | (6) | CO2 | PO1 |
| 9. List the functions of (i)Android Widgets (ii)Web Kit (iii)Geo Services | (6) | CO3 | PO1 |
| 10. Explain the applications of E-commerce | (6) | CO4 | PO1 |

--- End of Paper ---