H-6042

M.Sc. (IV Semester) Examination, 2022

INFORMATION TECHNOLOGY

Paper – III

(Mobile Computing & Application Development)

Time Allowed: Three Hours

Maximum Marks: 70

Section-A

Note:- Attempt any ten questions. Each question carries one mark.

Q.I. Objective Type Questions **1x10**

1. TDM stands for……..
2. The term 'HLR' stands for……
3. C++ code line ends in……..
4. The language on which android is based on, is ……
5. An example of a media format not supported by android is ……..
6. The 2G communication was introduced in the market in year ……..

7. Which one of the following is considered as the GSM supplementary service?
   a. Emergency number
   b. SMS
   c. Call forwarding
   d. All of the above
8. The android kernel is based on:
   a. Mac
   b. Linus
   c. Windows
   d. None of the above
9. The supported data rate of 4G network is:
   a. 1024 Kbps
   b. 100 Mbps
   c. 200 Mbps
   d. None
10. How many sub-systems are global systems for mobiles?
    a. 2
    b. 3
    c. 4
    d. None
11. Android is a web browser. **(State whether true or false).**
12. A pointer pointing to a variable which is not initialized is called a Null Pointer. **(State whether true or false).**

Section-B

Note:- Attempt any five questions. Each question carries two marks.

Q. II. Very Short Answer Type (25-30 Words) 2x5

1. What are electromagnetic radiations?
2. What is MAC?
3. Define GPRS.
4. What is the main function of SIM?
5. What is meant by Home Location Register?
6. Write any two disadvantages of mobile communication.
7. Write two properties of 4G network?

Section-C

Note:- Attempt any five questions. Each question carries four marks.

Q.III. Short Answer Type (250 Words) 4x5

1. Describe the concept of "Client-Server Computing" .
2. Discuss the applications of android.
3. Give a brief account on mobile computing.

4. Explain the basic operations of satellite database.
5. Give a brief account on various types of mobility.
6. Explain the GSM architecture.
7. Explain the architecture of GPRS with diagram.

Section-D

Note:- Attempt any three questions. Each question carries ten marks.

Q.IV. Essay type (more than 500 Words) 3x10

1. Discuss the concept of event driven programming in android.
2. Discuss the applications of mobile communication in various field.
3. Give a detailed account on various MAC layer bluetooth system
4. Write short notes on:
   a. SMS b. MMS c. VAS