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H-7142

M.Sc. (Semester-IV) Examination, July 2022

COMPUTER SCIENCE

**(Mobile Computing and
Application Development)**

Time Allowed : Three Hours

Maximum Marks : 70

Minimum Passing Marks : 25

Note : Question paper is divided into four sections. Attempt question from all four section as per given direction. Distribution of marks is given in each section.

SECTION - A

(Multiple Choice Questions)

Note : Attempt **any ten** questions. Each question carries **1** mark.

[10×1=10]

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(1)

[P.T.O.]

1. (i) _____ is considered as the GSM Supplementary Service.
- (ii) Write the full form of SIM _____ .
- (iii) Which language used in Mobile Computing ____.
- (iv) What kind of protocol is used to provide Internet access from mobile _____ .
- (v) Android is _____ .
- (vi) For which of the following Android is mainly developed :
- (a) Desktops
 - (b) Laptops
 - (c) Servers
 - (d) Mobile devices
- (vii) Under which of the following Android is licensed _____ .
- (a) Apache / MIT
 - (b) Sourceforge

- (c) OSS
 - (d) None of the above
- (viii) Android is based on which of the following language :
- (a) C++
 - (b) C
 - (c) Java
 - (d) None of the above
- (ix) APK stands for :
- (a) Android package kit
 - (b) Android page kit
 - (c) Android phone kit
 - (d) None of the above
- (x) What does API Stands for :
- (a) Android Programming Interface
 - (b) Android Page Interface

- (c) Application Page Interface
 - (d) Application Programming Interface
- (xi) Select the activity in Android :
- (a) Android class
 - (b) Android package
 - (c) A single screen is an application with supporting Java Code
 - (d) None of the above
- (xii) Which of the following Kernal used in Android :
- (a) Linux
 - (b) Mac
 - (c) Unix
 - (d) Windows

SECTION - B

(Very Short Answer Type Questions)

Note : Attempt **any five** questions. Each question carries **2** marks. Maximum word limit is 25-30 words. [5×2=10]

2. (i) What is Emulators?
- (ii) What is the use of Gateway.
- (iii) Explain GSM
- (iv) Explain CDMA
- (v) Explain in brief Android Programming.
- (vi) What do you mean by Emulators?
- (vii) What is Mobile Computing.

SECTION - C

(Short Answer Type Questions)

Note : Attempt **any five** questions. Each question carries **4** marks. Maximum word limit is 250 words. [5×4=20]

3. (i) Explain various Generation of Wireless Technology.
- (ii) Explain different Modes. Which is used in Mobile Communication.
- (iii) Explain various Mobile Computing Protocol?

- (iv) Discuss Android apps development Environment setup process
- (v) Explain in detail Android GUI design and Layouts.
- (vi) Discuss basic operation of SQLite Database.
- (vii) What is the priorities of Android Application explain?

SECTION - D

(Essay Type Questions)

Note : Attempt **all three** questions. Each question carries **10** marks. Maximum word limit is 500 words. [3×10=30]

- 4. (i) Explain Architecture of Mobile Computing three tier and GSM with various services.
- (ii) What do you mean by Emulator? Explain in detailed Android Emulation creation and Setup process.
- (iii) Explain Activity Life cycle and exception handing of Android programming.

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