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AB-235681

M.Sc. (Semester-IV) Examination, June-2025

(Backlog)

COMPUTER SCIENCE

**(Mobile Computing and Application
Development)**

Time Allowed : Three Hours

Maximum Marks : 70

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

SECTION-A

(Objective Type Questions)

Note : Attempt **any ten** questions. Each question carries **1** mark. [10×1=10]

1. (i) Mobile Computing allows transmission of data from one wireless-enabled device to another through _____.

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(1)

[P.T.O.]

- (ii) In general, a mobile computing environment can also be considered as the type of _____ environment.
- (iii) _____ is a fundamental principle of wireless communication.
- (iv) _____ is required to transmit the digital information using a certain frequency by translating it into an analog signal.
- (v) 2G communication was introduced in the market in year _____.
- (vi) _____ is a supported data rates of 4G Networks.
- (vii) Which one of the followings is considered as the GSM supplementary service?
- (a) Emergency number
 - (b) SMS
 - (c) Call forwarding
 - (d) All of the above

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- (viii) How many sub-systems are global systems of mobiles?
- (a) 4
 - (b) 3
 - (c) 2
 - (d) None of the above
- (ix) Which of the followings is considered as the heart of the global systems for mobiles (GSM)?
- (a) Network switching subsystem
 - (b) Operational support sub-system
 - (c) Base station subsystem
 - (d) None of the above
- (x) BSC comes under which of the following category?
- (a) Operation
 - (b) Radio
 - (c) Network
 - (d) Mobile

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[P.T.O.]

- (xi) The term TDM stands for _____
- (a) Time division multiplexing
 - (b) Transfer Multiplexing
 - (c) Tedious division multiplexing
 - (d) None of the above
- (xii) How many types of security services are provided by GSM?
- (a) 1
 - (b) 2
 - (c) 3
 - (d) None of the above

SECTION-B

(Very Short Answer Type Questions)

Note: Attempt any five questions. Each question carries 2 marks.(Word limit : 25-30 words) : [5×2=10]

2. (i) What is mobile communication?

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- (ii) What is MMS?
- (iii) What is GUI in Android?
- (iv) What is Exception?
- (v) What is Adapter?
- (vi) What is database?
- (vii) What is protocol?

SECTION-C

(Short Answer Type Questions)

Note: Attempt any five questions. Each question carries 4 marks.(Word limit : 250 words) [5×4=20]

3. (i) Write any five applications of mobile communication.
- (ii) Write a short note on Geo stationary satellite.
- (iii) What is Android OS? Explain its features.
- (iv) What is Emulator? Explain.
- (v) Explain Activity life cycle and Manifest of Android with example.

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[P.T.O.]

- (vi) Discuss UI programming with suitable example.
- (vii) What is Menu in Android? Explain any two custom and system menus with example.

SECTION-D

(Essay Type Questions)

Note: Attempt **any three** questions. Each question carries 10 marks. (Word limit : 500 words) [3×10=30]

- 4. (i) Explain different generations of wireless Technology with example.
- (ii) What is sqlite? Explain basic operations of sqlife database with example.
- (iii) Write a short note on Android UI Design and Intent.
- (iv) Explain the role of satellite in mobile communication.

—X—