A–0839

Total Pages : 3 **Roll No. .....**

MCS-604

INTRODUCTION TO MOBILE ARCHITECTURE

(MCA)

Examination, June 2025

Time : 2:00 Hrs. Max. Marks : 70

Note* :–** This paper is of Seventy (70) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these sections according to the detailed instructions given therein. ***Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

Section–A

Long Answer Type Questions 2×19=38

***Note* :–** Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

1. What do you understand by native mobile application ? Describe the architecture of a native mobile application and its components.

2. What is mobile operating system ? Describe the architecture of a mobile operating system with a focus on Android.

3. Explain the prerequisites and steps for publishing apps to Google Play Store and Apple App Store.

4. What are native development tools ? What are the differences between native development tools for Android and iOS ?

5. Discuss the role of input-output components like cameras and speakers in mobile hardware.

Section–B

Short Answer Type Questions 4×8=32

***Note* :–** Section 'B' contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. Compare and contrast mobile applications with web applications.

2. Discuss the challenges developers face when designing mobile applications.

3. Explain the components of a mobile support infrastructure with an example.

4. Outline the design considerations and best practices for mobile app development.

5. What are the basic features and functionalities of Android as a mobile operating system ?

6. Outline the multitasking and accessibility features of iOS.

7. What is Virtual Private Networking (VPN), and how is it utilized in Windows phones ?

8. Discuss the key features of Qualcomm Snapdragon and Samsung Exynos processors.

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