

SYCS/SEM IV-Reg/Android Application Development

Marks:75

Time: 2½ hrs.

- Note:
1. All questions are compulsory with internal choice.
 2. Draw neat diagrams wherever necessary.
 3. Figures to the right indicate full marks.

- Q.1 Answer the following (any four) (20)**
- (a) What are different forms of for loop in Kotlin? Explain any one in detail.
 - (b) Explain the activity life cycle with diagram.
 - (c) Explain different features of Kotlin Language.
 - (d) What are types of constructors in Kotlin? Explain any one with example.
 - (e) Explain default argument and named argument in Kotlin function with suitable programming example.
 - (f) Explain Android Virtual Device in detail
- Q.2 Answer the following (any four) (20)**
- (a) Briefly explain about Android menu.
 - (b) Write a note on Intents in Android.
 - (c) Write a note on User Interface.
 - (d) List and explain features of firebase real time database
 - (e) Explain Progress Bar with its important attributes and method.
 - (f) Write a note on external storage.
- Q.3 Answer the following (any four) (20)**
- (a) What are the steps involved to publish your Android App on Play Store?
 - (b) Explain touch gestures with example.
 - (c) Write a note on different types services in Android.
 - (d) Define Resources. Explain any four drawable resources.
 - (e) Write a note on camera features.
 - (f) What is service explain in detail.
- Q.4 Answer the following (any five) (15)**
- (a) Explain Broadcast Receiver in Android.
 - (b) Write a note on Kotlin visibility modifiers.
 - (c) Explain MediaPlayer class with any three methods.
 - (d) Explain any three value resources.
 - (e) Write a Kotlin program to demonstrate method overriding.
 - (f) Explain any three drawable resources.

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