

Duration: 2 1/2 Hrs

Marks:- 75

- Note:-** 1) All questions are compulsory.
2) Figures to the right indicate maximum marks.

Q.1. Answer any four of the following: (20M)

- a) Write a short note on operators. (CO- 1 R)
- b) Write a short note on Kotlin functions. (CO- 1 R)
- c) Explain “for loop” in Kotlin. (CO- 1R)
- d) Write a short note on fragment. (CO- 2 R)
- e) Write a short note on activity life cycle. (CO- 2 R)
- f) Explain if else in Kotlin. (CO- 1 R)

Q.2. Answer any four of the following: (20M)

- a) Explain working with view. (CO- 3 R)
- b) Write a short note on Android UI control. (CO- 3 R)
- c) Write a short note on event handler. (CO- 2 R)
- d) Write a short note on Image View. (CO- 2 R)
- e) Write a short note on Menu. (CO- 3 R)
- f) Explain recyclerView in detail. (CO- 3 R)

Q.3. Answer any four of the following: (20M)

- a) Write a short note on animation in android. (CO- 5 R)
- b) Write a short note on services. (CO- 5 R)
- c) Write a short note on publishing and steps involved in publishing the apps. (CO- 5 R)
- d) Write a short note on broadcast receiver. (CO- 4 R)
- e) Write a short note on Async Task. (CO- 4 R)
- f) Explain camera API in detail. (CO- 5 R)

Q.4. Answer any five of the following: (15M)

- a) Write step to create app. (CO -1 R)
- b) Explain collections in Kotlin. (CO -1 R)
- c) Explain Relative Layout in detail. (CO -2 R)
- d) Explain Image Switcher. (CO -3 R)
- e) What are the methods of content provider? (CO -4 R)
- f) Explain Versioning. (CO -5 R)