

FOR THE CANDIDATES ADMITTED  
DURING THE ACADEMIC YEAR 2020 ONLY)

20UCS518

REG.NO

NGM COLLEGE (AUTONOMOUS) POLLACHI

END-OF-SEMESTER EXAMINATIONS: DECEMBER-2022

B. Sc-Computer Science (Aided & SF)

MAXIMUM MARKS: 70

V SEMESTER

TIME: 3 HOURS

**PART III**

**KOTLIN PROGRAMMING**

**SECTION – A**

**(10 X1 = 10 MARKS)**

**ANSWER THE FOLLOWING QUESTIONS**

**MULTIPLE CHOICE QUESTIONS**

**(K1)**

1. \_\_\_\_ is an open-source distributed ledger platform, supported by major banks, and built entirely in kotlin.  
a) Corda                      b) Jetbrain                      c) React                      d) spring
2. Classes in Kotlin are declared using the keyword \_\_\_\_  
a) Data type                      b) class                      c) public                      d) private
3. \_\_\_\_ is a set of key-value pairs.  
a) List                      b) directory                      c) map                      d) pairs
4. The \_\_\_\_ function returns a job that can be used to cancel the running coroutine.  
a) Fun                      b) job                      c) end                      d) launch
5. The \_\_\_\_ provides tools that help you create the missing actual declaration  
a) IDE                      b) front end                      c) data                      d) back end

**ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES**

**(K2)**

6. What is Kotlin?
7. Define the term Lambdas in Kotlin.
8. How do iterators work in Kotlin?
9. Why are Channels used in Kotlin language?
10. Give abbreviation of JVM.

**SECTION – B**

**(5 X 4 = 20 MARKS)**

**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) Illustrate Kotlin features for Android Development.

**(OR)**

- b) Explain control flow in Kotlin.

**(CONTD .... 2)**

12. a) Illustrate Interfaces in Kotlin with suitable examples.  
(OR)  
b) Summarize the benefits of Inline – function in Kotlin.
13. a) Outline the steps of constructing collections.  
(OR)  
b) Elucidate the concept of Filtering.
14. a) Demonstrate the process of composing suspending functions in Kotlin.  
(OR)  
b) Elaborate select expression in Kotlin.
15. a) Analyze specific declaration in multiplatform programming.  
(OR)  
b) Gradle plugin: Elaborate.

**SECTION – C****(4 X 10 = 40 MARKS)****ANSWER ANY FOUR OUT OF SIX QUESTIONS.****(16TH QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS FROM Q.NO: 17 TO 21 )****(K4) OR (K5)**

16. Explain Lambdas and compare with functions of kotlin programming.
17. Illustrate the structure of kotlin program.
18. Demonstrate the Classes and Inheritance.
19. Enumerate the process of collection ordering.
20. Discuss the merits and demerits of coroutine.
21. How will you create multiplatform projects with Gradle.

**A-11**

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