



RAN-2511000905011003

B.C.A. (NCF -NEP) (Sem.- V) Examination October - 2025

Major - 1 Advance Mobile Technology -1 (TH) (Paper - 503-02) (New)

Time: 1 Hour]

[Total Marks: 25

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book
- (2) All questions are compulsory
- (3) Figure to the right indicate full marks.
- (4) Mention your options clearly.

Seat No.:

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Student's Signature

Q. 1 A. Answer the following in short (any 4)

[04]

1. Kotlin is a:
 - a) Dynamically typed language
 - b) Statically typed language
 - c) Both static and dynamic
 - d) None
2. In Kotlin, the primary constructor is declared:
 - a) Inside curly braces {}
 - b) Inside parentheses () after class name
 - c) Using def keyword
 - d) With new keyword
3. To share media from our app to another, we use:
 - a) ACTION_SEND
 - b) ACTION_SHARE
 - c) ACTION_MEDIA
 - d) ACTION_BROADCAST
4. Algebra in Lilavati was referred to using the term:
 - a) Rekha-ganita
 - b) Kuttaka
 - c) Beej-ganit
 - d) Chakravala
5. What type of triangle is used in the Lilavati theorem (Verse 23)?
 - a) Scalene
 - b) Isosceles
 - c) Right-angled
 - d) Equilateral

Q. 1 B. Answer the following in short (any 4)

[04]

1. What is range in Kotlin
2. How to inherit one class into another? Give example
3. Which class is used to capture image using device camera?
4. How does Lilavati explain geometric measurement without diagrams?
5. What is Bhaskaracharya's teaching philosophy in Lilavati?

Q. 2 A. Write a short note on the following (any one)

[04]

1. Compare and contrast the if and when statements in Kotlin. Provide examples of how both are used in decision-making.
2. Explain the concept of properties and methods in Kotlin Classes. Give example.

- B.** Explain the concept and features of JSON. How does JSON differ from XML, and in what ways are they similar?

[05]

Q. 3 Write a short note on the following (any Two)

[08]

1. How to Create, Modify and Access Array in Kotlin? Explain with example.
 2. Discuss the concept of named parameters in Kotlin and explain how constructors are used.
 3. Differentiate between explicit and implicit intents, and give examples of their applications.
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