

CBCS SCHEME

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18AI63

Sixth Semester B.E. Degree Examination, Dec.2023/Jan.2024

Java for Mobile Applications

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Demonstrate the use of Enumeration features in Java with a relevant code. (10 Marks)
b. How values () and value of () methods can be used with Enum instance. (05 Marks)
c. Justify that Enumerations are of class types. (05 Marks)

OR

- 2 a. Explain with an example for each :
i) Autoboxing and Unboxing
ii) Autoboxing in methods
iii) Autoboxing helping in preventing errors
iv) Autoboxing/Unboxing occurring in Expression. (10 Marks)
b. Explain the retention policy available in Java. (05 Marks)
c. Discuss at-least five built in Annotations. (05 Marks)

Module-2

- 3 a. Identify a suitable java collection to build a dictionary. Write a Java program to demonstrate dictionary application. (10 Marks)
b. Demonstrate use of legacy methods defined by following classes : i) Vector ii) Stack. (10 Marks)

OR

- 4 a. Summarize the methods related to map interfaces. (10 Marks)
b. List and explain at least five algorithms defined by collections. (10 Marks)

Module-3

- 5 a. With an example code discuss the constructors supported by String class. (10 Marks)
b. Explain the various operations that can be performed on variable to String class. (10 Marks)

OR

- 6 a. Discuss the importance of String Buffer class by listing its methods and constructors. (10 Marks)
b. How Strings can be compared with following method?
i) Equals and equalsIgnoreCase()
ii) regionMatches
iii) startsWith and endsWith() (10 Marks)

Module-4

- 7 a. Describe the architecture of Android with neat diagram. (10 Marks)
b. Implement a code to link two activities to perform following operation :
i) Returning Results from an intent
ii) Passing Data Using an Intent Object. (10 Marks)

OR

- 8 a. What are Fragments? Demonstrate show fragments can be added dynamically. (10 Marks)
b. With a neat diagram and call back methods, explain the life cycle of Fragments. (10 Marks)

Module-5

- 9 a. List and explain the different types of Layouts supported in Android. (10 Marks)
b. With an example code demonstrate the use of following Views : (10 Marks)
i) RadioButton
ii) RadioGroup
iii) ToggleButton
iv) CheckBox.

OR

- 10 a. Write an helper class to create, open, use and close a SQLite database. (10 Marks)
b. With an example demonstrate CRUD(create, read, update and delete) operations performed on databases. (10 Marks)
