

9. (a) Explain any *two* inbuilt functions of String Class and String Buffer Class each with their respective syntax.
- (b) Write a short Java code to present how different operations can be performed on file in a Java program.

Roll No.

97692

BCA 6th Semester
Examination – July, 2022

OBJECT TECHNOLOGIES & PROGRAMMING USING

JAVA

Paper : BCA-307

Time : Three Hours]

[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all, selecting *one* question from each Unit. Question No. 1 is *compulsory*. All questions carry equal marks.

1. Compulsory Question :

- (a) What is the meaning of "public static void main (String args[]) ?
- (b) JVM is a platform dependent (T/F). Justify your answer.

- (c) What is the use of "this" keyword ?
- (d) What is a Wrapper Class ?
- (e) What is use of final keyword ?
- (f) Define run time Exception.
- (g) What is difference between interface and abstract class ?
- (h) What are transient and volatile modifiers ?

UNIT - I

- 2. (a) What is object-oriented approach ? How object-oriented approach is different from procedure oriented approach ? Discuss the benefits and applications of OOPs.
- (b) What is encapsulation ? How is it achieved in OOPs ?
- 3. (a) What is inheritance ? Compare and contrast its different types.
- (b) Discuss the structure of a java program.

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UNIT - II

- 4. (a) What is constructor ? Discuss the concepts of parameterized and copy constructor with code snippet.
- (b) How object can be used as parameter ? Illustrate with code written in JAVA.
- 5. (a) Discuss the garbage collection mechanism in JAVA.
- (b) How array is used in JAVA ? Discuss with example.

UNIT - III

- 6. What is Package ? How packages are created, accessed and import in Java ? Illustrate with example.
- 7. What is exception handling ? How multiple exceptions are caught in a single program ? WAP to demonstrate the use of custom exception.

UNIT - IV

- 8. What is multithreading in Java ? Explain the inter thread communication with the help of suitable example.

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P. T. O.