Roll No. Total No. of Pages: 02

Total No. of Questions: 07

BCA (Sem.-5) PROGRAMMING IN JAVA

Subject Code: UGCA-1932

M.Code: 90315

Date of Examintion: 21-12-2022

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write briefly:

- (a) Distinguish between binary and text files.
- (b) What are the implications of public, protected and private visibility modes?
- (c) What is Java virtual machine?
- (d) Why Java is a compiled and interpreted language?
- (e) What are the advantages of inheritance?
- (f) Why is object-oriented paradigm so called?
- (g) What is data hiding and how is it related to data abstraction?
- (h) How do we pass parameters to an applet? Give one example.
- (i) Explain an abstract class.
- (j) What do you understand by inheritance in Java?

1 | M-90315 (S3)-1087

SECTION-B

- 2. Differentiate between the following with example Java code segments:
 - (a) Abstract and Concrete Class
 - (b) Method overloading and Method overriding
 - (c) Final and Finally keywords
 - (d) Class and Object
- 3. (a) What is the typical structure of a Java Program? Explain with example.
 - (b) Explain the different visibility controls and also compare with each of them.
- 4. Explain the implementation of multiple inheritance through interfaces, in detail.
- 5. What are Java packages? How are they defined and imported?
- 6. (a) What is Encapsulation? Explain how encapsulation provides modularity and information.
 - (b) Differentiate among Try and Catch, Throw and Finally methods.
- 7. (a) Explain the purpose of InputStream, Reader, OutputStream and Writer classes.
 - (b) What are the different states of a Thread?

NOTE: Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.

2 M-90315 (S3)-1087