

B.C.A. - III (CBCS Pattern) Sem-V
007 Paper-III (Elective-I) : Core Java

P. Pages : 2

Time : Three Hours



GUG/W/22/13082

Max. Marks : 40

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagrams wherever necessary.
 3. Avoid vague answers and write answers relevant and specific to questions only.

Either :

1. a) Explain different primary data types in java. 4
- b) Explain following terms in JDK Environment. 4
- i) JVM (Java Virtual Machine)
- ii) JRE (Java Runtime Environment)

OR

- c) Write a java program to find largest element from single dimensional array. 4
- d) Explain any 4 major features of java in details. 4

Either :

2. a) What is data encapsulation and data hiding in Object Oriented programming in java? 4
- b) Write a java program to overload constructor for 'Box' Class considering width, length and height are data members and we have suitable overloaded constructors to initialize data members. 4

OR

- c) How we achieve run time polymorphism using dynamic method dispatch? Explain using example. 4
- d) What are different role of 'final' keyword with variable, method and class? Explain 4

Either :

3. a) How to create package in java? How to access class from package? Explain 4
- b) What is multithreading in java? Explain. 4

OR

- c) What is Exception Handling? Explain try-catch mechanism in java. 4
- d) Write java Applet to print "Hello" Message in Applet with red background Colour. 4

Either :

4. a) Write java program which display frame to accept number in text field and when button is clicked it display square of the given number in another text field. 4
- b) Explain Flow layout in java along with all constructors. 4

OR

- c) Explain following AWT components 4
- i) Button
- ii) Check Box
- d) Write java program which is having frame and frame is having three radio buttons RED, GREEN, BLUE when user click any one radio button background colour of frame changes to that colour that name of radio button clicked. 4
5. Attempt all the questions
- a) What is stream in java? Explain 2
- b) What are interfaces? Explain. 2
- c) Explain the role of 'throw' in Exception handling in java. 2
- d) What is layout Manager? Explain. 2
