

NEW

2017

BCA

5th Semester Examination

OBJECT ORIENTED PROGRAMMING USING JAVA

PAPER—3101

Full Marks : 70

Time : 3 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer Q. No. 1 and any five from the rest.

1. Answer any *five* questions : 5×2

- (a) Why Java is called fully object oriented programming language ?
- (b) What is byte code ?
- (c) What is interface ?

(Turn Over)

- (d) What is the difference between 'final' and 'finalize' in Java?
- (e) Write down application of oops.
- (f) What is constructor ?
- (g) What is an applet ?
2. (a) Write down some features of object oriented programming language. 4
- (b) Why java is known as platform independent language ? 4
- (c) Write down some features of C++ that Java does not support. 4
3. (a) What is JVM ? Explain how it works. 2+4
- (b) What is inheritance ? What type of inheritance Java does not support ? How this problem can be solved ? 2+1+3
4. Write short notes on (any Three) : 3×4
- (a) Class and object
- (b) Application of oops

- (c) Package
 - (d) Applet
 - (e) Function overloading
 - (f) Exception Handling.
5. (a) What is thread ? What is the difference between multiprocessing and multithreading. 2+4
- (b) Discuss about life cycle of a thread. 6
6. (a) Explain the lifecycle of an applet with an example. State the difference between an Applet and Application. 3+3
- (b) What is an Exception in Java ? Explain how exception I handled in Java using try, catch, throw etc. 2+4
7. (a) What is the major difference between interface and class ? 4
- (b) Describe the various forms of interface implementation. Discuss some similarity between interface and class. 6+2

8. (a) What are the benefits of package ? 4
- (b) Name any two functions for the following packages
(any *four*) 4×2
- (i) lang (ii) util (iii) awt (iv) net (v) io (vi) applet
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