

BCA-16

December - Examination 2017

BCA Pt. III Examination**Programming in JAVA****Paper - BCA-16****Time : 3 Hours]****[Max. Marks :- 100**

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

Section - A**10 × 2 = 20**

(Very Short Answer Questions)

Note: Answer **all** questions. As per the nature of the questions delimit your answer in one word, one sentence or maximum up to 30 words. Each question carries 2 marks.

- 1) (i) Write any three are methods of the Object class?
- (ii) What keyword is used to declare a constant?
- (iii) What is applet?
- (iv) Give difference between a public and a non-public class.
- (v) What is the importance of static variable?
- (vi) When a program does not want to handle exception, the _____ class is used.
- (vii) Can we define a variable in interface? What type it should be?

- (viii) Explain finalize() method.
- (ix) What is a package?
- (x) What is the difference between 'Exception' and 'error' in java?

Section - B**4 × 10 = 40**

(Short Answer Questions)

Note: Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 10 marks.

- 2) What is File Handling? Explain its advantages. Explain the concept of File streams.
- 3) What do you understand by I/O streams? Differentiate between Byte Stream and Character Stream.
- 4) Explain the various categories of recursive statements used in Java.
- 5) What is applet? Describe the complete life cycle of an applet.
- 6) What is a copy constructor? Explain with the example.
- 7) What are decision making statements? Explain the various categories of decision making statements used in Java.
- 8) What is the concept of Thread model and Main Thread?
- 9) How Swings are different from Applets? Explain with an example.

Section - C**2 × 20 = 40**

(Long Answer Questions)

Note: Answer **any two** questions. You have to delimit your each answer maximum up to 500 words. Each question carries 20 marks.

- 10) What is an interface? Describe the purpose and application of interface. Give an example for defining and implementing interface.
 - 11) What is finally block? When and how is it used? Give a suitable example. Demonstrate the usage of multiple catch blocks.
 - 12) What do you understand by inheritances? Explain all type of inheritances used in JAVA.
 - 13) What is exception handling? What are the type of exception? Write a code to handle array out of bound exception.
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