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BCA-16

June – Examination 2020

BCA (Part III) Examination

Programming in Java

Paper : BCA-16

Time : 3 Hours]

[Maximum Marks : 70

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

Section-A

7×2=14

(Very Short Answer Type Questions)

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

1. (i) Why Java is platform independent language ?
Explain.

11. What do you mean by multithreading ? Explain the process of creating a thread using Runnable interface. Also explain yield() and notify().
12. What is an Applet ? Explain the difference between local and remote applet. Also give the lifecycle of applet.
13. What is a Constructor ? Explain the features of a constructor. Define the process of constructor overloading in Java.

- (ii) Write a short note on JDK.
- (iii) Explain object and classes in Java.
- (iv) Compare Java with C++.
- (v) Write the advantages of using swing.
- (vi) What is a thread in Java ?
- (vii) Explain finalize method in Java.

Section-B **4×7=28**

(Short Answer Type Questions)

Note :- Answer any *four* questions. Answer should not exceed **200** words. Each question carries 7 marks.

- 2. What is a Constructor ? Differentiate constructor with other methods.
- 3. Explain the various loop controls in Java with example.
- 4. What is an Applet ? Explain the difference of an applet with the stand alone application.
- 5. Explain the difference between overloading and overriding.

- 6. What are the different types of errors that may exist ? Explain the process of exception handling in Java.
- 7. What is Inheritance ? Explain the different types of inheritance.
- 8. Explain array in Java. How the array can be declared and used in Java ?
- 9. What do you mean by multithreading ? Explain the process of creating and using a thread in Java.

Section-C **2×14=28**

(Long Answer Type Questions)

Note :- Answer any *two* questions. You have to delimit each answer maximum upto **500** words. Each question carries 14 marks.

- 10. What is exception handling ? Explain all the exception handling mechanism used in Java.