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[16–GAHG–D4S]

Form No. Ex–8

Particulars about the candidate and the subject are **checked thoroughly** and corrected where necessary.

Sl. No. .....

EXAM CENTRE CODE : .....

Invigilator

Signature of Officer in-Charge

BCA 4th Semester Examination, 2016

[Programming in JAVA] {BCA (S4) 14}

Time : 2 Hours

Full Marks : 50

Enrolment Number : | | | | | | | | | | |

Medium of Answer : |

304 (JAVA)

INSTRUCTIONS TO CANDIDATES

1. This booklet contains 16 pages numbering 15. Please verify number of pages in the booklet before answering.
2. No pages of the script be torn out.
3. An examinee is allowed to bring only Admission Card and Identity Card to the Examination Hall. Any examinee found in possession of loose papers, books, mobile phones, etc., is liable to be expelled.
4. Enrolment Number and Medium of Answer must be written legibly at the specified places. Examinee's name and any other identifying mark which reveals examinee's identity shall not be written anywhere in the script.
5. For making calculations, etc., only the last page may be used.
6. Calculators will not be allowed for making calculations in the examination hall.
7. No candidate will be allowed to leave or go out of the Hall during the first hour of the Examination.
8. A candidate having completed his/her answer, the script must be handed over to an Invigilator before leaving the Hall.
9. Contravention of any of the instructions mentioned above shall render a candidate liable for disciplinary action as per regulations of the University.

Mandatory

Examiner's Signature : _____

Examiner's Full Name : _____

Scrutiniser's Signature : _____

Scrutiniser's Full Name : _____

Question Nos.	Marks
1.	
2.	
3.*(a)*	
3.*(b)*	
3.*(c)*	
3.*(d)*	
3.*(e)*	
4.*(a)*	
4.*(b)*	
5.*(a)*	
5.*(b)*	
Total	

Head Examiner's Signature : _____

1. Answer the following questions : 1×6=6

(a) What do you mean by platform independence?

(b) What is JVM (Java Virtual Machine)?

(c) What is encapsulation?

(d) Define JRE, i.e., Java Runtime Environment.

(e) What is an interface?

(f) Define abstract class.

2. Answer the following questions : 2×5=10

(a) How are objects of a class created if no constructor is defined in the class?

(b) What is a static variable? Give example.

(c) What is the purpose of default constructor? Can a constructor be made final?

(d) What is the difference between continue and break statement? Briefly explain with an example.

(e) What do you mean by object? Define class.

3. Answer any *four* of the following questions : 4×4=16

(a) When is constructor of a class invoked? Explain with example.

(b) What is the benefit of using inheritance? Can constructor be inherited?

(c) List any four features of Java.

(d) What is a vector? How is it different from an array?

(e) Briefly explain the concept of polymorphism with examples.

4. Answer any *one* of the following questions : 8

(a) Write a program to add two matrices.

(b) List some of the common types of exceptions that might occur in Java. Give examples.

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(a) Write a program to add two matrices.

(b) List some of the common types of exceptions that might occur in Java. Give examples.

5. Answer any *one* of the following questions : 10

(a) Explain the life cycle of an applet with one example.

(b) What do you mean by event handling? What are the types of events used in Java AWT?