XEV (H-3) – BCA (6)

2016

Time : 3 hours Full Marks : 100

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

> The questions are of equal value. Answer any five questions, in which question no 1 is compulsory.

- 1. Choose the correct answer of the following :
 - (a) C++ language was invented by :
 - (i) Ken Thompson
 - (ii) Dennis Ritche

(iii) Bjarne Stroustrup

- (iv) None
- (b) The packing of data and functions into a single components is known as :
 - (i) Encapsulation
 - (ii) Polymorphism
 - (iii) Abstraction
 - (iv) None

(c) In nested loop :

. (i) The inner most loop is completed first

- (ii) The outermost loop is completed first
 - (iii) Both (i) and (ii)
 - (iv) None
- (d) Constructor and destructors are automatically invoked by :
 - (i) Compiler
 - (ii) Operating system
 - (iii) main () function
 - (iv) object
- (e) The size of void pointers is :
 - (i) 2 bytes
 - (ii) 0 bytes
 - (iii) 4 bytes
 - (iv) None
- (f) Which one of the following operator cannot be overload :
 - (i) Dot operator [.]
 - (ii) Plus operator [+]
 - (iii) Ampersand operator [^]
 - (iv) -- operator
- (g) Java compiler translates source code into :
 - (i) Byte code
 - (ii) Bit code

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(iii) Machine code

- (iv) User code
- (h) Java provides extensive set of classes, arranged

in : (i) Package

- (ii) Library file
- (iii) Template class
- (iv) None
- (i) Java does not support :
 - (i) Operator overloading
 - (ii) Global variable

(iii) Multiple inheritance

- (iv) All
- -(j) Which of the following is the correct declaration statement in Java program ?

(i) int num = new int [5]

(iv) None

2 What do you mean by object orienterd programming language ? Discuss the various features of OOPS. How java is different from C++. Explain.

3. What is function overloading ? What are the rules for defining overloaded function ? What precautions should we taken while overloading function ?

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- 4. What are pointers? What are the features and uses of pointers? In which situation does the pointer become harmful.
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- What do you mean by inheritance ? Describe the various types of inheritance with example.
- 6. What is thread ? How many ways a thread can be created ? Illustrate the pros and cons of different ways of creating a thread.
- 7. What is package ? How do you create a package ? How does a package declaration affect a class definition ?
- 8. What are interfaces ? How are interfaces created and implemented in java ? How is an interface different from class.
- Explain the concept of class, objects and methods in java. Also write a program to explain the concept of overloading methods with reference to class.
- 10. Write short notes on any three of the following
 - (a) Constructor and destructor
 - (b) Stream class
 - (c) Java virtual machine
 - Wrapper class
 - (e) Artificial intelligence

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(4)

(Turn over)

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