



**SLR-SC – 34**

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**B.Sc. (E.C.S.) – II (Semester – IV) (New CBCS) Examination, 2018**  
**OBJECT ORIENTED PROGRAMMING USING JAVA (Paper – I)**

Day and Date : Thursday, 3-5-2018  
Time : 10.30 a.m. to 1.00 p.m.

Total Marks : 70

**Instructions :** 1) **All questions are compulsory.**  
2) **Figures to the right place indicate full marks.**

1. A) Choose correct alternatives : **10**
- 1) In which the access modifier means that the field can be accessed by all classes in your application ?
    - a) private
    - b) public
    - c) package
    - d) protected
  - 2) Which is a non-static method having the same name as its class ?
    - a) Field
    - b) Method
    - c) Constructor
    - d) None of the above
  - 3) Which class cannot be instantiated ?
    - a) Abstract class
    - b) Static class
    - c) Both a) and b)
    - d) None of the above
  - 4) Which block contains a block of program statements where an exception might occur ?
    - a) catch
    - b) try
    - c) throw
    - d) final
  - 5) Which method is used in thread class to start the execution of the thread ?
    - a) start()
    - b) run()
    - c) stop()
    - d) suspend()
  - 6) Which type of inheritance one super-class has more than one sub-class ?
    - a) hierarchical inheritance
    - b) single inheritance
    - c) multiple inheritances
    - d) multilevel inheritance

**P.T.O.**



- 7) Which stream does Java application uses to read data from a source, it may be a file, an array, peripheral device or socket ?
- a) InputStream                      b) OutputStream  
c) Input / OutputStream              d) None of these
- 8) Which operator is used by Java run time implementations to free the memory of an object when it is no longer needed ?
- a) delete                              b) free  
c) new                                  d) none of these
- 9) Which package provides many event classes and Listener interfaces for event handling ?
- a) java.awt                          b) java.awt.Graphics  
c) java.awt.event                      d) none of these
- 10) Which of these classes is not part of Java's collection framework ?
- a) Maps                                b) Array  
c) Stack                                d) Queue

B) State the following statement **true/false** :

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- 1) The ActionListener interface is not used for handling action events.
- 2) Static fields belong to the class, not instances of the class.
- 3) Void is not a wrapper class.
- 4) Swing is not a part of JFC (Java Foundation Classes) that is used to create GUI application.

2. Answer **any seven** of the following :

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- 1) Define Java Virtual Machine (JVM).
- 2) Define method overloading.
- 3) Define final class.
- 4) What is an exception ?
- 5) Write Applet Tag.
- 6) What is Garbage collection ?
- 7) Define Adapter class.
- 8) What is Data Abstraction ?
- 9) Define Vector class.

**Set P**



3. A) Answer **any two** of the following : **10**
- 1) Explain visibility controls in detail.
  - 2) Explain wrapper classes in detail.
  - 3) Explain Byte Stream Classes in detail.
- B) Write a difference between Java and C++. **4**
4. Answer **any two** of the following : **14**
- 1) What is constructor ? Explain with suitable example.
  - 2) Write a multithreading program to implement runnable interface.
  - 3) Write a program to implement method overriding.
5. Answer **any two** of the following : **14**
- 1) What is inheritance ? Explain interface in detail.
  - 2) Explain event handling mechanism in detail.
  - 3) Explain layout manager with its type.
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