

Seat No. : _____

NC-138

December-2015

T.Y.M.Sc. (CA & IT)

Object Oriented Programming with JAVA

Time : 3 Hours]

[Max. Marks : 100

1. (A) Attempt the following : (Any **Three**) **15**
- (1) What is oop ? Explain Abstraction, Encapsulation & Polymorphism with suitable example.
 - (2) What is an array ? Explain Multi-dimensional array and array of the Objects with example.
 - (3) Differentiate between final, finalize, finally.
 - (4) What are Wrapper classes ? Explain all Java wrapper classes.
- (B) Attempt the following : (Any **Five**) **5**
- (1) garbage collection
 - (2) New operator
 - (3) break and continue
 - (4) serialization
 - (5) bytecode
 - (6) Adapter class
2. (A) Attempt the following : (Any **Three**) **15**
- (1) Explain Java Access Modifiers with suitable example.
 - (2) What is abstract class ? Explain abstract class and abstract method with an example.
 - (3) List string handling functions and explain any five string handling functions.
 - (4) Differentiate between Method Overloading and Method Overriding.
- (B) Attempt the following : (Any **Five**) **5**
- (1) CLASSPATH
 - (2) super
 - (3) static method
 - (4) package
 - (5) Type casting
 - (6) String Buffer class

3. (A) Attempt the following : (Any **Three**) **15**
- (1) What is Exception ? Explain exception handling in Java.
 - (2) What is Thread ? Explain the life cycle of the Thread.
 - (3) What is Package ? Explain package with example.
 - (4) What is Thread Synchronization ? Explain the importance of the thread synchronization.
- (B) Attempt the following : (Any **one**) **5**
- (1) Write a Java applet program to Display the counter in middle of the Applet. The counter should be incremented by the interval of 1 second.
 - (2) Write a Java applet program that will move a circle from one place to another by the interval of $\frac{1}{4}$ second.
4. (A) Attempt the following : (Any **Three**) **15**
- (1) What is Interface ? Discuss in detail.
 - (2) What is Stream ? Explain Character stream with Reader and Writer class and its methods.
 - (3) What is RandomAccessFile of file ? Explain its mode of random access.
 - (4) Explain Enumerations with an example.
- (B) Attempt the following : (Any **one**) **5**
- (1) Write a Java program that will find first 10 prime numbers and write them on the file.
 - (2) Write a Java program that will read the content of the file and display Number of bytes read, Number of the lines read from the file.
5. Attempt the following : (Any **Four**) **20**
- (1) List out any five Graphics functions and explain its syntax with an example.
 - (2) Explain Layout Managers.
 - (3) What is AWT ? Explain any three AWT controls.
 - (4) What is Event Handling ? Explain the Event Delegation Model with proper example.
 - (5) What is Dialog ? Explain Dialog and FileDialog with example.
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