

E-6032

M.Sc. (IIIrd Semester) Examination, 2021
INFORMATION TECHNOLOGY

(Advanced Java Programming)

Time Allowed : Three Hours

Maximum Marks : 70

SECTION - A

(Objective Type Questions)

Note : Attempt any ten questions. **1×10=10**

Q. 1. (A) Fill in the blanks :

- (i) The output of the Java compiler is known as _____.
- (ii) The .org part of a domain name stands for _____.
- (iii) _____ tag is used as the Java interpreter.
- (iv) Java Supports _____ programming.

(2)

(v) _____ is the Java Compiler.

(B) Multiple choice question :

(vi) Which of the following is a type of polymorphism in Java ?

- (a) Compile time polymorphism
- (b) Execution time polymorphism
- (c) Multiple polymorphism
- (d) Multilevel polymorphism

(vii) When does method overloading is determined ?

- (a) At run time
- (b) At compile time
- (c) At coding time
- (d) At execution time

(3)

(viii) Which of these class is used to create
user defined exception ?

- (a) Java.lang
- (b) Exception
- (c) Run time
- (d) System

(ix) Which of these is a process of converting
a simple data type into a class ?

- (a) Type wrapping
- (b) Type conversion
- (c) Type casting
- (d) None of mentioned

(x) The Java control statements break,
continue, return, try-catch-finally and
assert belongs to :

(4)

(a) Selection Statements

(b) Loop Statements

(c) Transfer Statements

(d) Pause Statements

(xi) Which provides runtime environment for
Java byte code to be executed ?

(a) JDK

(b) JVM

(c) JRE

(d) JAVAC

(xii) In Java a thread can be created by :

(a) Extending the thread class

(b) Implementing runnable interface

(c) Both of the above

(d) None of these

(5)

SECTION - B

(Very Short Answer Type Questions)

Note : Attempt any five questions. Each question carries 2 marks. Maximum word limit 25-30 words. **5×2=10**

- Q. 2.** (i) What is class ?
- (ii) What do you mean by variables ?
- (iii) Define full form of JVM.
- (iv) Define constructor.
- (v) What is IDE ?
- (vi) What do you mean by event ?
- (vii) Define Interpreter.

SECTION - C

(Short Answer Type Questions)

Note : Attempt any five questions. Each question carries 4 marks. Maximum word limit 250 words. **4×5=20**

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P.T.O.

(6)

- Q. 3.** (i) Write features of Java.
- (ii) Write application of JAVA.
- (iii) Application object oriented programming.
- (iv) Distinguish between abstract class and concrete class.
- (v) What are the advantage of multithreading ?
- (vi) Life cycle of Servlet.
- (vii) Explain event handling.

SECTION - D

(Essay Type Questions)

Note : Attempt any three questions. Each question carries 10 marks. Maximum word limit 500 words. **3×10=30**

- Q. 4.** (i) Write differences between JAVA & C++.
- (ii) Explain inheritance and its type with suitable diagram.

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(7)

(iii) What is socket and TCP/IP client socket ?

Explain in detail.

(iv) Explain life cycle of multithreading.

