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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.

(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

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(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 :

(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

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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**

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

Explain in detail.

(iv) Explain life cycle of multithreading.

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