

**MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL**

Paper Code : OE-EC704A Web Technology

Time Allotted : 3 Hours

Full Marks : 70

*The Figures in the margin Indicate full marks.**Candidate are required to give their answers in their own words as far as practicable***Group-A (Very Short Answer Type Question)**

1. Answer any ten of the following :

[1 x 10 = 10]

- (i) What is an applet?
- (ii) Name one tag which does not require any terminator.
- (iii) Which class in Java is superclass of every other class?
- (iv) What is an interface?
- (v) What is a I/O stream?
- (vi) What is a remote applet?
- (vii) What is serialization?
- (viii) Which function is called to display the output of an applet?
- (ix) What will be the output of the following statements?

```
System.out.println("Hi there");  
System.out.println("This is My Exam");
```

- (x) What is order of calling constructors in case of inheritance?
- (xi) What are the tasks of JVM?
- (xii) Can we access both superclass and subclass members if we create an object of subclass?

Group-B (Short Answer Type Question)

Answer any three of the following

[5 x 3 = 15]

- 2. Distinguish between the terms: Inheritance and Polymorphism. [5]
- 3. Describe different forms of inheritance with examples. [5]
- 4. What is final keyword in Java? Give an example. [5]
- 5. Describe various forms of implementing interfaces. [5]
- 6. Write a program to show how user-defined parameters can be supplied to an applet using <PARAM...> tags. [5]

Group-C (Long Answer Type Question)

Answer any three of the following

[15 x 3 = 45]

- 7. (a) What are the three parts of a simple, empty class? [3]
(b) What is inheritance and how does it help us create new classes quickly? [6]
(c) Compare and contrast overloading and overriding methods. [6]
- 8. (a) What is the difference between Exception and Error? Show with an example. [5]
(b) What is the difference between throw and throws? [4]
(c) Write program to handle different types of exception using multiple catch statement. [6]
- 9. (a) Explain the concept of Dynamic Binding. [5]
(b) What is initialization? Why is it important? [5]
(c) Write a Java program to convert the given temperature in Fahrenheit to Celsius using the following conversion formula $C = (F - 32) / 9$. [5]
- 10. (a) What is class? How does it accomplish data hiding? How do we declare a member of a class static? [7]
(b) How is method defined? [3]

- (c) Explain method overriding with example. [5]
11. (a) List a few areas of application of OOP technology. [5]
- (b) List the basic data types used in Java. Give examples. [5]
- (c) Write a Java program to determine the sum of the following harmonic series for a given value of n: [5]
 $1 + 1/2 + 1/3 + \dots + 1/n$.

*** END OF PAPER ***

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