

MAY 2011

P/ID 37460/PMAK

Time : Three hours

Maximum : 60 marks

SECTION A — (10 × 1 = 10 marks)

Answer ALL questions.

Each question carries 1 mark.

1. List the five types of tokens included in Java.
2. What is type casting?
3. Find the values of $-14\%3$ and $14\%-3$.
4. Give the general form of $?:$ operator.
5. Give the general form of method declaration.
6. What is a vector?
7. Define inter-thread communication.
8. What is an exception?
9. What is an applet?
10. What is an URL?

SECTION B — (5 × 3 = 15 marks)

Answer ALL questions.

Each question carries 3 marks.

11. (a) What is a constant? List different types of constants with examples.

Or

- (b) What is a variable? Give examples. List the rules for choosing a variable.

12. (a) List the logical operators. Give examples.

Or

- (b) Give the general form of switch statement.

13. (a) Describe different forms of inheritance with examples.

Or

- (b) Explain how to create, declare and initialize arrays.

14. (a) Give the general form of try block.

Or

- (b) Explain how to set thread priority.

15. (a) Explain how to add an applet to HTML file.

Or

- (b) Explain how to provide interactive input to applets.

SECTION C — (5 × 7 = 35 marks)

Answer ALL questions.

Each question carries 7 marks.

16. (a) What are the different data types in Java? Explain each one of them with examples.

Or

- (b) Write a program to convert the given temperature in Fahrenheit to Celsius using the formula $C = \frac{F - 32}{1.8}$ and display the values in a tabular form.

17. (a) Give the general forms of for statement. Explain with example.

Or

- (b) Explain how to exit a loop and also bypassing and continuing in loops.

18. (a) Explain the enumerated types and annotations.

Or

- (b) Write a program to sort an array of strings in alphabetical order using compare to ().

19. (a) Explain the life cycle of a thread.

Or

- (b) What is synchronization? When do we use it? Explain in detail.

20. (a) Explain how to design a web page.

Or

- (b) Explain how to pass parameters to applets.
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