

DECEMBER 2015

P/ID 37460/PMAK

Time : Three hours

Maximum : 60 marks

SECTION A — (10 × 1 = 10 marks)

Answer ALL the questions.

1. What is a token?
2. Give the general form of assignment statement.
3. Given $\alpha = 14$ and $b = 4$, find the values of α/b and $\alpha\%b$.
4. Give the general form of operator.
5. Give the basic form of class definition.
6. What is an array? Give an example.
7. What is multithreading?
8. Give the general form of finally statement.
9. What is a remote applet?
10. What is an URL?

SECTION B — (5 × 3 = 15 marks)

Answer ALL questions.

11. (a) Explain command line arguments.

Or

- (b) What are symbolic constants? Explain.

12. (a) What are relational operators. Explain each one of them with example.

Or

- (b) Write a program to determine the largest of three given numbers.

13. (a) Explain how to access class members.

Or

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

14. (a) Write a program to illustrate the use of **thread** class for creating and running threads in an application.

Or

- (b) Explain how to set thread priority.

15. (a) Describe the various sections of a web page.

Or

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

SECTION C — (5 × 7 = 35 marks)

Answer ALL the questions.

16. (a) Give the summary of Java statements.

Or

- (b) Write a program to determine the sum of the following harmonic series for a given value of n .

$$1 + \frac{1}{2} + \frac{1}{3} + \dots + \frac{1}{n}$$

The value of n should be given interactively through the keyboard.

17. (a) Give the general forms of *while* and *do* statement. Explain with examples.

Or

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

3 **P/ID 37460/PMAK**

18. (a) Explain how to implement and access interface variables.

Or

(b) Explain wrapper classes.

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 event handling.
