



C14-CM-501/C14-IT-501

4624

BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL—2018
DCME—FIFTH SEMESTER EXAMINATION
JAVA PROGRAMMING

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

Instructions : (1) Answer **all** questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Distinguish between Java and C++.
2. Write the steps to execute a Java program.
3. How to declare and initialize a variable in Java?
4. What is the use of pointer?
5. Why is main method assigned as static?
6. What is an interface?
7. List out Java built-in packages.
8. Write the advantages of multithreading.
9. List the advantages of exception handling.
10. List the features of an applet.

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PART—B

10×5=50

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

- 11.** (a) Explain about various loop statements in Java.
(b) Write a Java program to find square root of x using Math class. 6+4
- 12.** Explain in detail constructor overloading. Write an example that shows constructor overloading. 4+6
- 13.** (a) Explain about final keyword with examples.
(b) Explain about command line arguments with example program. 4+6
- 14.** Explain how an interface is implemented by two different classes with an example. 10
- 15.** Describe various levels of access protection available in packages with an example. 10
- 16.** Explain about thread synchronization in Java. 10
- 17.** (a) Write a Java program to handle the exception `StringIndexOutOfBoundsException`.
(b) Explain about throws clause with an example. 5+5
- 18.** (a) Write an applet which displays the message 'WELCOME TO JAVA APPLETS'.
(b) What is stream? List different stream classes in Java. 5+5

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