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C16-CM-402

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BOARD DIPLOMA EXAMINATION, (C-16)

JUNE/JULY—2022

DCME - FOURTH SEMESTER EXAMINATION

OOP THROUGH JAVA

Time : 3 hours]

[Total Marks : 80

PART—A

- 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.

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|-----|--|-----|
| 1. | Define class and object. | 3 |
| 2. | Define an applet. | 3 |
| 3. | Write the syntax of declaring and initializing a variable. | 3 |
| 4. | Define constructor and list different types of constructors. | 1+2 |
| 5. | Define an interface. | 3 |
| 6. | List any three pre-defined packages. | 3 |
| 7. | List the different types of inheritance. | 3 |
| 8. | List the sources of errors. | 3 |
| 9. | List any three methods defined by thread class. | 3 |
| 10. | Write about connection interface. | 3 |

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PART—B

- Instructions :** (1) Answer *any five* questions.
(2) Each question carries **ten** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Explain the features of object oriented programming in detail. 10
12. List and explain basic data types of Java. 10
13. Write a Java program to demonstrate method overloading. 10
14. Explain the concept of creating and importing a package with an example program. 10
15. (a) Write a Java program to demonstrate single inheritance. 5
(b) Explain the scope of variables in interface. 5
16. Explain the concept of multi-catch statements with an example program. 10
17. (a) Write about join(), suspend() and resume() methods. 6
(b) Explain about synchronization. 4
18. (a) Explain about JDBC drivers. 5
(b) Explain about prepared statement and callable statement. 5

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