

67004-N

MCA 1st Semester (MCA 2 year programme)
WEF 2020-2021 Examination, December-2022
OBJECT ORIENTED PROGRAMMING USING JAVA
Paper-20MCA21C1

Time allowed : 3 hours]

[Maximum marks : 80

Note : Students shall be required to attempt five questions, selecting at least one from each unit. All questions shall carry equal marks. Question No. 1 will be compulsory.

1. (a) What is thread priority ?
(b) What is Object reference variable ?
(c) What is byte and character ?
(d) What is Iterator ?
(e) What is console output ?
(f) What is synchronization ?
(g) What is Paint Mode ?
(h) What is the HTML APPLET tag ? 8×2=16

Unit-1

2. What do you mean by Evolution of JAVA ? How does Java bring drastic changes to Internet ? Explain each feature of JAVA with an example. 16
3. Explain the following with example : 4×4=16
- (a) Data Type
(b) String Buffer class
(c) Control statement
(d) Operators in JAVA

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Unit-II

4. What is the difference between Multiple inheritance and Interface in Java ? Explain Multiple inheritances and Interface with examples. 16
5. (a) What is the role of Exception Handling ? Explain any five of Java's common Exceptions with example. 10
(b) How is Access Specifier used in Package ? Explain with example. 6

Unit-III

6. What is Multithreading ? What are commonly Constructors used in Multithreading ? Explain the life cycle of Thread with a suitable example. 16
7. (a) What is Input/Output in Java ? Explain how Writing and Reading are on file with suitable examples. 8
(b) What is Applet ? Explain the life cycle of Applet with example. 8

Unit-IV

8. (a) What are the basic Window fundamentals ? Explain with example. 5

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- (b) How are AWT classes used ? Explain any three inbuilt AWT classes. 5
- (c) How is Applet used to create a frame window ? Explain with example. 6
9. Explain the following with example : 6+6+4
(a) Layout managers and Menus
(b) AWT control and Text Output
(c) Exploring Text and Graphics

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