

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BFMS-471

M.Sc. (Final) Examination, 2023 INFORMATION TECHNOLOGY

Paper - MIT-202

(Java)

Time : 3 Hours]

[Maximum Marks : 50

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 3 × 5 = 15)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **3** marks.

Section-C

(Marks : 5 × 3 = 15)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **5** marks.

Section-A

1. (i) What do you mean by Byte code ?
- (ii) Why is Java Robust and Secure ?
- (iii) What are the characteristics of OOP ?

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- (iv) What is Thread ?
- (v) What is the use of interface in Java ?
- (vi) What do you mean by Event ?
- (vii) Why is Java Beans used ?
- (viii) What do you mean by Driver ?
- (ix) What is JSP ?
- (x) What is Servlet ?

Section-B

2. What is Class ? How does it accomplish Data hiding ?

Or

Differentiate between method overloading and method overriding.

3. What is the use of protected keyword in inheritance ? Explain.

Or

What is the difference between Synchronized block and Synchronized keyword ?

4. Differentiate between window and frame.

Or

What is Event delegation model ? How does it provide actions to AWT components ?

5. Discuss about the MVC architecture in JFC/Swing ?

Or

Write a program to delete related record from database using JDBC.

6. How are sessions managed by servlets. Explain in detail.

Or

Write a servlet program to insert data and update table using JDBC.

Section-C

7. Describe various control statements of Java with suitable example.
8. Explain the various levels of access protection available for packages and their implications.
9. What is the use of importing classes of AWT and applet package for running applet ?
10. What is the communication process of the application using the Java Beans ?
11. Explain the life cycle of servlet. Differentiate between applet and servlet.