

Roll No : .....

Total No. of Questions : 11 ]

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# SP-725

## M.Sc. (Final) Examination, 2021 INFORMATION TECHNOLOGY

Paper - MIT-202

(Java)

Time : 1½ Hours ]

[ Maximum Marks : 50

### Section-A

(Marks : 2 × 10 = 20)

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

(खण्ड-अ)

(अंक : 2 × 10 = 20)

**नोट :-** सभी दस प्रश्नों के उत्तर दीजिए (उत्तर-सीमा 50 शब्द)। प्रत्येक प्रश्न 2 अंक का है।

### 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.

(खण्ड-ब)

(अंक : 3 × 5 = 15)

**नोट :-** सभी पाँच प्रश्नों के उत्तर दीजिए। प्रत्येक प्रश्न में विकल्प का चयन कीजिए (उत्तर-सीमा 200 शब्द)। प्रत्येक प्रश्न 3 अंक का है।

### Section-C

(Marks : 5 × 3 = 15)

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

(खण्ड-स)

(अंक : 5 × 3 = 15)

**नोट :-** पाँच में से किन्हीं तीन प्रश्नों के उत्तर दीजिए (उत्तर-सीमा 500 शब्द)। प्रत्येक प्रश्न 5 अंक का है।

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SP-725 P.T.O.

**Section–A**

2 each

1. (i) What is class ? How does it accomplish data hiding ?
- (ii) Explain JVM.
- (iii) What is Thread Priority ?
- (iv) Difference between throw and throws.
- (v) Explain the use of AWT in Java.
- (vi) Define Adapter classes.
- (vii) Describe Java Beans.
- (viii) How databases are connected with the help of JDBC ?
- (ix) Describe JSP errors.
- (x) What do you mean by cookies ?

**Section–B**

3 each

2. What do you mean by looping ? Explain different types of loops used in Java.

*Or*

Write short notes on the following :

- (a) Stack class
  - (b) Inheritance
3. Explain thread synchronization in Java.

*Or*

Explain java.lang and java.util with suitable examples.

4. Explain AWT classes with example.

*Or*

What is a frame ? Write a java program to illustrate the use of frames.

5. What are the advantages of Java beans ? Explain.

*Or*

What is SWINGS in Java ?

6. Give life-cycle of servlet.

*Or*

Explain JSP architecture.

**Section–C**

5 each

7. What do you mean by constructor ? Explain types of constructors in Java.

8. What is Package ? Write down its types and use with example.

9. By using AWT methods. Write code to draw ellipses and circles.

10. Define JDBC. Explain the JDBC architecture in detail with diagram.

11. How servlet codes are created and compiled ? Explain through example.