

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BPMS-522

M.Sc. (Previous) Examination, 2023

COMPUTER SCIENCE

Paper - MCS-102

[Object Oriented Programming (OOP)]

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) Explain Encapsulation.
- (ii) What is delegation ?
- (iii) Explain Enumeration.

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- (iv) What is advantage of using Function ?
- (v) Define Template.
- (vi) What is friend function ?
- (vii) Explain use of JVM.
- (viii) What is garbage collection ?
- (ix) Write a note on Abstract class.
- (x) Define Exception.

Section-B

2. Differentiate overloading and overriding.

Or

How is information secured in OOP ?

3. Explain Pass by value and Pass by reference using example.

Or

Write a program to show difference between break and continue.

4. Explain virtual function with suitable example.

Or

Write a program to show use of Templates.

5. Explain use of this pointer in Java with suitable example.

Or

Explain Arrays in Java.

6. Explain Packages in Java.

Or

Explain Error Handling methods in Java with examples.

Section–C

7. Explain Object Oriented Programming and its characters in detail.
8. Explain Importance of functions. Write program to pass arguments by value and by reference. Also show the difference in outputs.
9. What is Construction and Destruction ? Explain their need and types use suitable example wherever applicable.
10. Explain Inheritance, its types and importance in Java. Use examples wherever applicable.
11. What do you understand by AP Applet ? Explain Applet life cycle. How can one pass a parameter to applet ? Explain with example.