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Total No. of Questions : 11 ]

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# **BPG-1103**

**M.Sc. (Previous) Examination, 2021**

**COMPUTER SCIENCE**

**MCS-102**

**[Object Oriented Programming (OOP)]**

*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।

**BI-688**

**( 1 )**

**BPG-1103 P.T.O.**

**Section–A**

2 each

1. Attempt all questions. Answers should not exceed **50** words in each question.
  - (i) Define abstraction with suitable example.
  - (ii) What is Method Overriding ?
  - (iii) What do you mean by Enumeration ?
  - (iv) What is scope of variable ?
  - (v) What is Inline Function ?
  - (vi) What is Virtual Function ?
  - (vii) Explain Java characteristics.
  - (viii) Explain 'THIS' keyword.
  - (ix) Explain Interface used in Java.
  - (x) What is Java virtual machine ?

**Section–B**

3 each

Attempt all questions. Answer should not exceed **200** words in each question.

2. What are the main features of OOP Technology ?

*Or*

Explain Polymorphism with suitable example.

3. Write a programme to find factorial of given number.

*Or*

Explain call by value function with example.

4. What is Pointer ? Explain its advantage.

*Or*

Explain type conversion with suitable example.

5. Explain string classes in C++ with example.

*Or*

Write short notes on Abstract Class.

6. Why wrapper class used in Java ? Explain.

*Or*

Write short note on vector in Java.

**Section–C**

5 each

Attempt any *three* questions out of five. Answer should not exceed **500** words in each question.

7. Explain the various data type in C++ with example.
8. What is Function ? Explain array and function.
9. What is Friend Function ? Explain it with suitable example.
10. Explain multithreading concept in Java.
11. What is Package ? Explain type of package.