

SP-1111(A)

M.Sc. (Previous) Examination, 2018

Shri Jain P G College, Bikaner

COMPUTER SCIENCE

MCS-102

(Object Oriented Programming) (oop)

Time allowed : Three hours

Maximum Marks : 50

श्री जैन (पी.जी.) कॉलेज, बीकानेर

SECTION - A

(Marks 2 × 10 = 20)

Answer all ten questions. (Answer limit 50 words). Each question carries 2 marks.

खण्ड - अ

(अंक 2 × 10 = 20)

समस्त दस प्रश्नों के उत्तर दीजिए। (उत्तर सीमा 50 शब्द) प्रत्येक प्रश्न 2 अंक का है।

SECTION - B

(Marks 3 × 5 = 15)

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

खण्ड - ब

(अंक 3 × 5 = 15)

समस्त पाँच प्रश्नों के उत्तर दीजिए। प्रत्येक प्रश्न में विकल्प का चयन करें। (उत्तर सीमा 200 शब्द) प्रत्येक प्रश्न 03 अंक का है।

SECTION - C**(Marks 5 × 3=15)**

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

खण्ड - स**(अंक 5 × 3=15)**

पाँच में से किन्हीं तीन प्रश्नों के उत्तर दीजिए।
(उत्तर सीमा 500 शब्द) प्रत्येक प्रश्न 10 अंक का है।

SECTION - A**खण्ड - अ**

1. Attempt all questions. Answer should not exceed 50 words in each question.
 - (i) Write the definition of object-oriented programming language. (2)
 - (ii) How many types of inheritance are possible in OOPS ? (2)
 - (iii) Explain the scope Resolution operator in C++ language. (2)
 - (iv) Write the definition of an Array. (2)
 - (v) What is class ? Write the syntax to declare a class. (2)
 - (vi) Explain the operator overloading. (2)
 - (vii) Write the definition of constructor in Java. (2)
 - (viii) Explain Java virtual machine briefly. (2)
 - (ix) Write the definition of an Applet. (2)
 - (x) What is utility class in Java ? (2)

SECTION - B

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

2. Explain the component of object oriented programming. (3)

OR

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(2)

Explain the class and object structure with example. (3)

3. Write a program of call by value method in C++. (3)

OR

Explain logical operator of C++ language. (3)

4. Write a program using friend function. (3)

OR

Explain simple inheritance with example in C++. (3)

5. Explain characteristics of Java. (3)

OR

Explain variables in Java with scope. (3)

6. Explain Applet life cycle. (3)

OR

Write short note on exception handling. (3)

SECTION - C

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

7. What is templates ? Explain it with suitable example. (5)
8. What is string ? Explain strlen() and strcpy() function with example. (5)

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(3)

P.T.O.

9. What is the rule of constructor implementation ? Explain copy constructor with example. (5)
10. What is Array ? Explain 2-D Array with example. (5)
11. What is multithreading ? Explain it with example. (5)
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Maximum Marks : 50

श्री जैन (पी.जी.) कॉलेज, बीकानेर

SECTION – A (Marks 2 × 10 = 20)

Answer all **ten** questions (Answer limit **50** words).
Each question carries **02** marks.

खण्ड – अ (अंक 2 × 10 = 20)

समस्त **दस** प्रश्नों के उत्तर दीजिए (उत्तर सीमा **50** शब्द) । प्रत्येक प्रश्न **02** अंक का है ।

SECTION – B (Marks 3 × 5 = 15)

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

खण्ड – ब (अंक 3 × 5 = 15)

समस्त **पाँच** प्रश्नों के उत्तर दीजिए (उत्तर सीमा **200** शब्द) । प्रत्येक प्रश्न में विकल्प का चयन करें । प्रत्येक प्रश्न **3** अंक का है ।

SECTION – C (Marks 5 × 3 = 15)

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

खण्ड – स (अंक 5 × 3 = 15)

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

SECTION – A

1. Attempt **all** questions. Answer should not exceed **50** words in each question.

- (i) Explain encapsulation with suitable example. 2
- (ii) Short note on Template and Abstract class. 2
- (iii) Write a program to read two numbers and display the larger value on the screen. 2
- (iv) Why is an array called a derived data type? 2
- (v) What is class? How does it accomplish data hiding? 2
- (vi) What is a friend function? What are the merits of using friend function? 2
- (vii) Explain the definition of datatypes and Token in Java. 2
- (viii) Describe abstract classes in Java and how can use in a program? 2
- (ix) What are the advantages of using exception handling mechanism in a program? 2
- (x) When showed a program throw an exception? 2

SECTION – B

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

2. Distinguish between the following term : 3
 - (a) Object and classes
 - (b) Inheritance and Polymorphism
 - (c) Dynamic binding and message passing

OR

List a few area of application of oop technology.

3. What are the application of void datatype in C++? 3

OR

Why is an array called a derived datatype? Explain.

4. What are objects? How are they created? 3

OR

What is constructor? Is it mandatory to use constructor in a class?

5. What is class loader subsystem of Java virtual machine? What is its functioning and purpose? 3

OR

How do you identify minor and major garbage collection in Java.

6. What is an exception specification ? When is it used ? Explain with suitable example. 3

OR

What are wrapper classes ? Why wrapper classes were introduced ?

SECTION - C

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

7. Write a complete class stating function overriding feature in C++. 5
8. Explain add two matrices using multi-dimensional array with C++ programming with output. 5
9. What is string constant pool ? 5
10. Explain Applet Life Cycle. 5
11. Explain friend function algorithm with suitable program. 5

BPG-1103

M.Sc. (Previous) Examination, 2021

COMPUTER SCIENCE

MCS-102

[Object Oriented Programming (OOP)]

Time : 1½ Hours]

श्री जैन (पी.जी.) कॉलेज, बीकानेर

[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.