



65321

III Semester B.C.A. Examination, March/April 2024
(CBCS) (Repeaters)
COMPUTER SCIENCE

Object Oriented Programming Using C++

Time : 3 Hours

Max. Marks : 70

Instruction : Answer all Sections.

SECTION – A

I. Answer **any ten** questions. **Each** question carries **2** marks : **(10×2=20)**

- 1) Define object.
- 2) What is data encapsulation ?
- 3) What is function prototyping ?
- 4) What are formal and actual parameters ?
- 5) What are access specifiers ?
- 6) Define default constructor.
- 7) What is method overriding ?
- 8) What is inheritance ?
- 9) What is a friend function ?
- 10) What is an exception ?
- 11) What is a stream ?
- 12) Write the usage of seekg() function.

SECTION – B

II. Answer **any five** questions. **Each** question carries **10** marks : **(5×10=50)**

- 13) a) Explain function overloading and illustrate with a C++ program. **5**
- b) What are manipulators ? Explain setw() and fill() functions. **5**

P.T.O.



- | | | |
|--------|--|---|
| 14) a) | How do you define a member function outside the class ? Explain. | 5 |
| b) | Explain the data types in C++. | 5 |
| 15) a) | Explain nesting of member functions. Illustrate with an example. | 5 |
| b) | Explain copy constructor. Illustrate with an example. | 5 |
| 16) a) | Write a C++ program to overload + operator to concatenate two strings. | 5 |
| b) | Explain constructor overloading. Illustrate with an example. | 5 |
| 17) a) | Explain the three types of data conversions. Give example. | 5 |
| b) | Explain multiple inheritance with an example. | 5 |
| 18) a) | Explain pure virtual function with an example. | 5 |
| b) | Write a C++ program to swap 2 numbers using friend function. | 5 |
| 19) a) | Explain memory allocations function with an example. | 5 |
| b) | Explain file pointers with an example. | 5 |
| 20) a) | Describe the different modes of opening file in C++. | 5 |
| b) | Explain the different I/O streams in C++. Illustrate with example. | 5 |
-