

2nd Semester Examination, 2022

Time : 3 hours

Full Marks : 60

Answer from all the Parts as per direction

The figures in the right-hand margin indicate marks

*Candidates are required to answer in their own words
as far as practicable*

(PROGRAMMING USING C++)

PART – I

- 1.** Answer *all* questions in *one* word or *one* sentence : 1 × 8
- (i) Which of the following is not an OOPS concept ?
- (a) Encapsulation
 - (b) Polymorphism
 - (c) Keyword

(Turn Over)

(d) Abstraction

(ii) Which of the following is the correct syntax to print the message in C++ language ?

(a) cout << "Hello";

(b) Cout>> Hello;

(c) POut << "Hello";

(d) None of the above

(iii) What is the role of a constructor in classes ?

(a) To modify the data whenever required

(b) To destroy an object

(c) To initialize the data members of an object when it is created

(d) To call private functions from the outer world

(iv) What is an array of objects ?

(a) An array of instances of class represented by single name

- (b) An array of instances of class represented by more than one name
 - (c) An array of instances which have more than 2 instances
 - (d) An array of instances which have different types
- (v) Which feature of OOPS described the Inheritance ?
- (a) Abstraction
 - (b) Polymorphism
 - (c) Encapsulation
 - (d) Reusability of code
- (vi) Which is the correct statement about pure virtual functions ?
- (a) They should be defined inside a base class
 - (b) Pure keyword should be used to declare a pure virtual function
 - (c) Pure virtual function is implemented in derived classes

(4)

(d) Pure virtual function cannot implemented in derived classes Read more on

(vii) What does argc and argv indicate in command-line arguments ?

(Assuming : int main(int argc, char *argv[]))

(a) Argument count, argument variable

(b) Argument count, argument vector

(c) Argument control, argument variable

(d) Argument control, argument vector

(viii) Which header file is required to use file I/O operations ?

(a) <ifstream>

(b) <ostream>

(c) <fstream>

(d) <iostream>.

PART – II

2. Answer any *eight* questions within *two/three* sentences :

$1\frac{1}{2} \times 8$

(5)

- (a) What is C++ tokens ?
- (b) What is friend function ?
- (c) What are the uses of Inline function ?
- (d) What is copy constructor ?
- (e) What is virtual base class ?
- (f) What is Inheritance ?
- (g) Define polymorphism.
- (h) What is virtual function ?
- (i) How to open a file ?
- (j) Define C++ stream class.

PART – III

3. Answer any *eight* questions within 75 words: 2×8

- (a) What are the characteristics of OOP ?
- (b) What is default argument ?

- (c) Define data types.
- (d) What is destructor ?
- (e) Define member function.
- (f) What is operator overloading ?
- (g) What is pure virtual function ?
- (h) What is the use of this pointer ?
- (i) How handle error during file operation ?
- (j) How to detect end of file ?

PART – IV

Answer all questions :

6 × 4

4. (a) Discuss different types of operator of C++.

Or

- (b) Explain the features of Object Oriented Programming.

5. (a) Write a C++ program to explain copy constructor.

Or

- (b) What is friend function? What are the features of friend function?

6. (a) What is Inheritance? Explain different types of Inheritance.

Or

- (b) Explain pure virtual function with a C++ program.

7. Write short notes on (any two) :

- (i) Unformatted I/o operations
- (ii) C++ Streams
- (iii) File Modes
- (iv) Sequential Input and Output Operations.