| Total N | No. of Questions : 8] | SEAT No. : | | | |
|---|---|-------------------------------------|----------------------|--|--|
| P152 | 28 [6002]-157 | [Total No. of Pages | : 2 | | |
| S.E. (| (Computer Engineering) (Artificial | Intelligence & Data Science | e) | | |
| | (Computer Science & I | | | | |
| | OBJECT ORIENTED PROGI | RAMMING (OOP) | | | |
| (2019 Pattern) (Semester - III) (Theory) (210243) | | | | | |
| | | | | | |
| Time: 2 | 2½ Hours] | [Max. Marks: | : 70 | | |
| | ctions to the candidates. | | | | |
| 1) 2) | | | | | |
| 3) | | 200 | | | |
| - / | | | | | |
| 01) a) | a) Who is mentioned a claum amplianed How | wit is solid and in Control Explois | . :4 | | |
| Q1) a) | What is runtime polymorphism? How along with example. | | ո ու [5] | | |
| b ` | | <u> </u> | [6] | | |
| c) | | 7 | | | |
| • | demonstrate use of unary operator over | | [6] | | |
| | OR | | [~] | | |
| Q2) a) | a) Explain polymorphism and types of p | olymorphism in C++. | [5] | | |
| b) | b) Explain what is type casting, Expla | • • | of | | |
| ĺ | conversion with example | | [6] | | |
| c) | c) Write a program to overload insertion | (<<) and extraction (>>) opera | tor | | |
| | in C++. | ુ! | [6] | | |
| | | | 2 | | |
| Q3) a) | _ \X | | | | |
| | Explain using example. | | [7] | | |
| b) | b) Explain command line arguments in C | | | | |
| 2) | same. What are different file an aring me do? | , ' ') | [7] | | |
| c) | What are different file opening mode?OR | 0, 0, | [4] | | |
| Q4) a) | | nnut and output functions used | lin | | |
| Q4) a) | C++ with example. | | [7] | | |
| b` | b) What are stream classes and their use | | | | |
| , | classes in C++. | | [7] | | |
| c) | | | | | |
| , | command line arguments what will b | | | | |
| | explain its arguments along with example | ple. | [4] | | |
| | 8. | <i>P.T</i> | .O. | | |
| | v | | | | |

| <i>Q</i> 5) | a) | What is the power of templates in C++? Explain along with one exam | nle. | |
|-------------|----|---|------------|--|
| 20) | | × S | [5] | |
| | b) | Explain exception handling mechanism in C++? Write a program in C | C++ | |
| | | to handle "divide by zero" exception. | [6] | |
| | c) | Write a short note on typename and export keyword in C++. | [6] | |
| | | OR OR | | |
| Q6) | a) | What is mean by user defined exception? Give one example. | | |
| | b) | Explain class template using multiple parameters. Write a program in C++. | | |
| | | | [6] | |
| | c) | How multiple catching is implemented in exception handling? | [6] | |
| | | | | |
| Q 7) | a) | Explain the concept of the Standard Template Library (STL) in C | | |
| | | What are its key components? | [7] | |
| | b) | 1 | | |
| | -) | the STL. Provide examples of each. | [7] | |
| | C) | Discuss the advantages of using container adapters in the STL. Pro- examples of container adapters | [4] | |
| | | OR | Γ.1 | |
| Q8) | a) | How can vectors and lists be used as sequence containers in the S' | TL? | |
| 20) | u) | Explain with a appropriate example. | [7] | |
| | b) | Explain the concept of iterators in the STL. Differentiate between iter | ator | |
| | | and pointers. | [7] | |
| | c) | Describe the process of using the STL algorithms for Quick sort. | .[4] | |
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| | | and pointers. Describe the process of using the STL algorithms for Quick sort. | | |
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