

Total No. of Questions-25

Roll No. :

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Total No. of Pages-2

# Half Yearly Examination 2019-20

Class : 12

BSE-856

**Subject : Information Technology and Programming-II**

**Time : 3.15 Hours**

**M.M. : 40**

*Note : (i) Candidate/Student write their Roll Number on the Question Paper Compulsory.*

*(ii) All Questions are Compulsory.*

*(iii) Marks of all questions are mentioned in front of the question.*

*(iv) Write all the Answer in the given Answer booklet at one place.*

1. How many types of simple data structures are there? 1
2. What is an Array? 1
3. What is Inplace sorting? 1
4. Write the full name of 'LIFO'. 1
5. What is header linked-list? 1
6. What are tokens? 1
7. What are 'Expressions'? 1
8. What are 'Functions'? 1
9. What is 'Object'? 1
10. What is 'Hybrid Inheritance'? 1
11. What is an entity? 1
12. Write the prototype of the operator function? 1
13. Which is the best sorting algorithm and why? 1
14. What is the use of Data Structure? 2
15. Explain 'merge sorting' in detail? 2
16. Explain 'Friend function'? 2

PTO

(2)

17. Explain 'Circular Queue' in detail? 2
18. Differentiate between single and double linked list. 2
19. Describe various types of looping statements. 2
20. Write a program to calculate the area of circle and area of rectangle using function overloading. 2
21. Explain and describe the different types of Attributes and Relationships in E-R diagrams along with their graphical representation. 2
22. Explain the classification of data type? 2
23. Describe a constructor with default argument. 3
24. Write a program to add two stringer by overloading Binary operator plus (+) using member function. 3
25. What is the effect of visibility mode in Inheritance. 3

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