EVENING

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Please check that this question paper contains_9_ questions and _1_ printed pages within first ten minutes.

[Total No. of Questions: 09]

[Total No. of Pages: 1]

Uni. Roll No.

Program: B.Tech. (Batch 2018 onward)

Semester: 4

Name of Subject: Object Oriented Programming using C++ and Data Structures

Subject Code: PCEC- 107

Paper ID: 16223

Time Allowed: 03 Hours

Max. Marks: 60

NOTE:

1) Parts A and B are compulsory

2) Part-C has Two Questions Q8 and Q9. Both are compulsory, but with internal choice

3) Any missing data may be assumed appropriately

Part - A

[Marks: 02 each]

01.

a) List features of object oriented programming.

b) Define polymorphism.

c) Define null pointer.

d) Define data structure.

e) Differentiate data structure and data types.

f) Describe briefly the need of template.

Part - B

[Marks: 04 each]

Q2. Explain the features and uses of pointers.

O3. Explain mechanism of exception handling.

Q4. Discuss various types of data structures.

Discuss the complexity of an algorithm? Also explain time space trade-off. Q5.

Write a program to demonstrate the concept of function template. Q6.

Q7. Write a program to declare and initialize a pointer.

Part - C

[Marks: 12 each]

Q8. Discuss the features of object oriented programming in detail.

Explain the types of inheritance in detail.

Convert the following expression from infix to postfix using a stack. 09.

[a + (b-c)] * [(d-e) / (f-g+h)]

Demonstrate the concept of constructor and destructor with examples.

ALLOW WIND BE

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