Total No. of Questions : 4]

SEAT No. :

PB20

[Total No. of Pages : 1

[6268]-214

S.E. (Electronics/E & TC Engineering) / (Electronics & Computer Engineering) (Insem)

OBJECT ORIENTED PROGRAMMING

(2019 Pattern) (Semester - IV) (204194)

Time : 1 Hour] *[Max. Marks : 30*

Instructions to the candidates:

1) ***Answer Q.1 or Q.2, Q.3 or Q.4.***
2) ***Neat diagrams must be drawn wherever necessary.***
3) ***Figures to the right indicate full marks.***
4) ***Assume suitable data, if necessary.***

Q1) a) What do you mean by overloading of a function? Explain with an example. **[5]**

b) Discuss the significance of Input/Output operators in C++. **[5]**

c) Explain how new and delete operators manage memory allocation/ deallocation dynamically? **[5]**

OR

Q2) a) Explain the procedure oriented programming and Object oriented programming. **[5]**

b) Explain the following terms **[5]**

i) Inheritance and

ii) Polymorphism

c) Explain call by value and call by reference. **[5]**

Q3) a) Explain terms class and object also write the declaration syntax for both. **[5]**

b) Explain the objects as function arguments in C++ with an example. **[5]**

c) What is destructor? Explain the copy constructor with example. **[5]**

OR

Q4) a) What is Constructor? Explain types of constructors. **[5]**

b) Explain member functions within a class in C++ with suitable example. **[5]**

c) Explain concept of static data members, static member functions in C++. **[5]**

Total No. of Questions : 4]

SEAT No. :

PB-17

[Total No. of Pages : 2

[6268]-211

S.E. (Eletronics/E&TC)/Electronics &Computer) (Insem)

SIGNALS & SYSTEMS

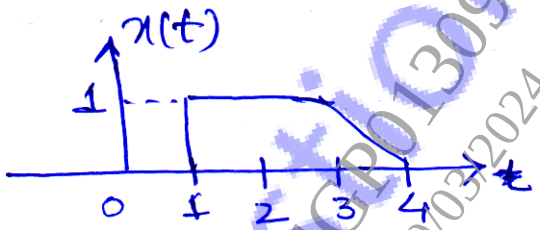
(2019 Pattern) (Semester - IV) (204191)

Time : 1 Hour] *[Max. Marks : 30*

Instructions to the candidates:

1) ***Solve Q1 or Q2, Q3 or Q4.***
2) ***Neat diagrams must be drawn wherever necessary.***
3) ***Figures to the right side indicate full marks.***
4) ***Use of logarithmic tables slide rule, Mollier charts, electronic pocket calculator and steam tables is allowed.***
5) ***Assume Suitable data if necessary.***

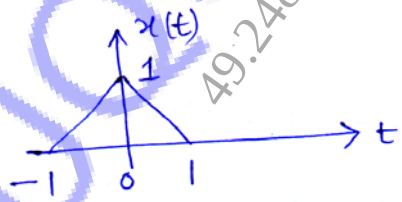
Q1) a) Find even and odd parts of given signal. **[5]**



b) Check whether the given signal is periodic or non-periodic. If periodic find the period. **[5]**

$x(t) = (5\sin t) + (4\cos 3t)$

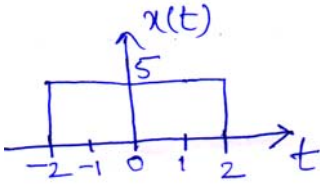
c) Sketch the following $y(t)$ if $x(t)$ is **[5]**



$y(t) = x(-2t + 1)$

OR

Q2) a) Check whether the given signal is energy or power. Find energy and power. **[5]**



P.T.O.