G.R. No.		

Paper code - U218-126 (T1)

## OCTOBER 2018/ IN-SEM (T1)

## S. Y. B. TECH. (COMPUTER ENGINEERING) (SEMESTER - I)

COURSE NAME: OBJECT ORIENTED PROGRAMMING

COURSE CODE: (CSUA21176)

(PATTERN 2017)

Time: [1 Hour]

[Max. Marks: 30]

## Instructions to candidates:

- 1) Answer Q.1 OR Q.2 and Q.3 OR Q.4.
- 2) Figures to the right indicate full marks.
- 3) Use of scientific calculator is allowed
- 4) Use suitable data wherever required
- Q.1) a) Explain various features of Object Oriented Programming. [6]
  - b)An Election is contested by five candidate, the candidates are numbered as 1 to 5 and voting is done by marking candidates number (Like 1,2...5) on ballot paper. Write a program to read ballots and count the votes cast to each candidates. (Use Class and Object and static variable) [6]
  - c) What are the differences between POP and OOP?

[4]

OR

Q.2) a) What is copy constructor? What is the purpose of using copy constructor? Demonstrate.(with Example) [6]

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<ul> <li>b) An electricity board charges following rates to customers for of energy. The charges as per rule of MESB</li> </ul>	consumption
for 001-100 Units @Rs 3.00/- (per unit)	
for 101-300 Units@ Rs 7.00 /- (per unit)	
for 301-500 Units@ Rs 9.00 /- (per unit)	
for 501-1000 Units@ Rs 11.00 /- (per unit) and	
beyond 1000 Units@ Rs 13.00 /- (per unit)	
Display the above values using constructor.	
Write a C++ program for total electricity bill consumption done by	customer.
	[6]
c) What is the difference between the keywords struct and class in C	++?
Support your answer with an example.	[4]
Q.3) a) Write a program for copying and concatenation of two	string using
operator overloading	[6]
b) Explain the public and private derivation in Single inheritance.	[4]
c) Define i) Function overloading ii) friend function	[4]
OR	
Q.4) a) Illustrate with program how the execution of constructor and des	tructor
can be done in base and derived class	
	C
b) What is operator overloading & pitfalls of operator	
a) Harrison and the second of	[4]
c) How we can use the concept of re-usability in C++? Justify your a	
Let the control from Law of DM get the control Programming to the	[4]