Total No. of Questions – [8]

Total No. of Printed Pages [02] Paper Code - V218-126 (BE-FS)

G.R. No.

May 2019 / ENDSEM

S.Y. B. TECH. (COMPUTER ENIGNEERING) (SEMESTER - II)

COURSE NAME : OBJECT ORIENTED PROGRAMMING

COURSE CODE: (CSUA21176)

(2017 PATTERN)

Time: [2 Hours]

[Max. Marks: 50]

Instructions to candidates:

- 1) Answer Q.1, Q.2, Q.3, Q.4, Q.5 OR Q.6, Q.7 OR Q.8
- 2) Figures to the right indicate full marks.
- 3) Use of scientific calculator is allowed
- 4) Use suitable data where ever required

Q.1 a.	An Election is contested by five candidate, the candidates are numbered as 1 to 5 and voting is done by marking candidates number (Like 1,25) 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]
	OR	
b	Write a program which uses default constructor, parameterized constructor and destructor?	
Q2 a.	Write a program in C++ to overload ++ operator to count employee in an organization (Assume required data of employee)	[6] A
	OR	
b	Write a program in C++ to overload less than operator(<) to compare distance object	[6]]
Q3 a.	Create a base class called manager . Derive two classes production manager & HR manager , add get_data() and display_data() in base class. Make compute_salary as a virtual function and redefine this function in the derived classes to suite their requirements.	[6]
	OR	an a
b.	Develop an abstract class Polygon from which derive two classes Triangle and Rectangle. each polygon should contain a function Area() . Invoke a appropriate function Area() to calculate area of all polygons.	[6]
Q4 a	Write a program in C++ to handle "divide by zero" and "Multiply by zero" exception (use class and object).	[4]
	OR	
b	Write a function template code for function abs() which will convert all input value in to positive values.	[4]
Q5 a.	Assuming that a text file named FIRST.TXT contains some text written into it, write a function named vowelwords(), that reads the file FIRST.TXT and creates a new file named SECOND.TXT, to contain only those words from the file FIRST.TXT which start with a lowercase vowel (i. e., with 'a', 'e', 'i', 'o', 'u'). For example, if the file FIRST.TXT contains	[6]
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	Carry umbrella and overcoat when it rains Then the file SECOND.TXT shall contain umbrella and overcoat it.	
b.	What is file pointer ? Explain seekg() and tellg() function.	[4]
	How I/O Stream is different than file stream?	[4]
с.		<u>[4</u>
Q6 a.	Write a function in C++ to count and display the number of lines not starting with alphabet 'A' present in a text file "STORY.TXT". Example: If the file "STORY.TXT" contains the following lines,	[6]
	The roses are red. A girl is playing badminton. There is a playground. An aeroplane is in the sky.	
	Numbers are not allowed in the password. The output will be The roses are red.	
	There is a playground. Numbers are not allowed in the password.	
b	Explain the following file mode ios::trunk,	[4]
	ios::app, ios::ate, ios::binary	
с	What is stream class ? discuss any four function of same?	[4]
		<u> </u>
Q7 a.	Create a students club for VIIT, where we can add and delete members to a club. where first student is head of the club and last is secretary of the club, the program should also print details of head and secretary ,use suitable container.	
b.	Write a program to implement Set using STL	[4]
с.	What is vector ? Explain any four algorithms of vector.	[4]
<u> </u>	OR	<u>[</u> +.
Q8. a	Create a dictionary with <key,value>pair such that unique key elements are to be added ,deleted and accessed randomly use appropriate STL.</key,value>	[6]
b	Write a C++ Program to implement List using STL for adding an element delete an element ,insert between the list, display all elements using Iterator.	[4]
	What are features of multi-set Associative container?	[4]

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