B.E. (Aeronautical Engineering) Semester Third (C.B.S.)
Computer Programming Paper - IV

P. Pages : 2

Time : Three Hours

0935

Max. Marks : 80

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Notes : 1. All questions carry marks as indicated.
2. Solve Question 1 OR Questions No. 2.
3. Solve Question 3 OR Questions No. 4.
4. Solve Question 5 OR Questions No. 6.
5. Solve Question 7 OR Questions No. 8.
6. Solve Question 9 OR Questions No. 10.
7. Solve Question 11 OR Questions No. 12.
8. Due credit will be given to neatness and adequate dimensions.
9. Diagrams and chemical equations should be given whenever necessary.
10. Use of non programmable calculator is permitted.

1. a) What is flowchart? Explain different Symbols involved in it. **3**

   b) Write general format of 'Switch' statement. Also write a 'c' program using 'SWITCH' statement to check whether entered character is vowel or consonant. **7**

   c) Explain with example 'break' statement in 'c' **3**

OR

2. a) Write a program to check whether entered year is leap year or not. **5**

   b) What are different storage classes available in 'c'? Explain each with its features using suitable example. **8**

3. a) Write a program to swap values of two variables using call by reference function. **6**

   b) What is function? What the difference between predefined function and user-defined function? **4**

   c) Explain Dynamic memory allocation? **3**

OR

4. a) Write a program to find smallest element in an array using pointers. **6**

   b) What are the differences between recursion and iteration? Write a 'c' program to generate Fibonacci series using recursion. **7**

5. a) What do you mean by arrays? Why we need arrays? Draw the memory map to store the elements of one dimensional array. **6**

   b) Write a program to multiply two matrices. **8**

OR

6.	a)	Define string list the different in-built string handling functions along with the use and syntax of each functions.	**7**
	b)	Write a program to count +ve, -ve, even, odd numbers from an array of so integer elements.	**7**
7.	a)	Write a program to store the information of 5 books and display the same information. Using structure. The information is title, anther, ISBN no. & Cost .	**7**
	b)	What do you mean by Enumerated data types? Explain giving suitable example.	**7**

<div align="center">**OR**</div>

8.	a)	What is union? How is it different from structure? Explain with suitable example.	**5**
	b)	Write short note on. i) Structure within structures ii) Array of structures iii) Type casting	**9**
9.	a)	Write a program to copy contents of one file into another.	**7**
	b)	Explain following functions related to files. i) fscanf ( ) ii) fread iii) ftell ()	**6**

<div align="center">**OR**</div>

10	a)	Write a program to create and count no of characters in file.	**7**
	b)	Explain different file opening modes in 'c'	**3**
	c)	Explain fseek () function with example.	**3**
11.	a)	What are the steps to call ROM-BIOS function.	**7**
	b)	Write short note on Elementary TSRs.	**6**

<div align="center">**OR**</div>

12.	a)	Explain near and far pointers with example.	**5**
	b)	What is NULL pointer? Explain with example.	**4**
	c)	Write short note on int-86().	**4**

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