B.Sc.-I (Information Technology) (CBCS Pattern) Semester - II

UBITT203 - Paper-III : Structured Programming Using C

P. Pages : 2 **GUG/S/23/10922**

Time : Three Hours * 1 1 6 5 * Max. Marks : 80

Notes : 1. All questions are compulsory and carry equal marks.
2. Draw a neat and labelled diagram wherever necessary.
3. Avoid vague answers and write specific answer related to question.

Either :-

1. a) Define Tokens. Explain different types of tokens in detail. **8**

b) What is Data Types? Explain different types of Datatypes in detail. **8**

OR

c) Define operators. Explain different types of operators in brief. **8**

d) Explain the Basic structure of 'C' using suitable example. **8**

Either :-

2. a) What is control string? List the various control string used in printf statement. **8**

b) Write a difference between if-else-and switch statement. **8**

OR

c) Explain the following **8**
i) getch ( ) ii) putch ( )
iii) gets ( ) iv) puts ( )

d) Write a program in 'C' **8**
i) To find even and odd nos
ii) To check whether year is leap year or not.

Either :-

3. a) Define loop. Explain the for -----loop using suitable example. **8**

b) Write a program to print the multiplication table of a number. **8**

OR

c) Explain the following **8**
i) got ( )
ii) exit ( )

d) Write a program to find the number of Armstrong number between 123 to 425. **8**

Either :-

4. a) Define array. How to initialize two dimensional array explain using suitable example. **8**

b) Write a program to find sum of two matrices having size 2 * 3. **8**

OR

c) What do you mean by searching? Explain different types of searching? **8**

d) Explain the following **8**

i) strlen ( ) ii) strrev ( )

iii) strcpy ( ) iv) strcmp ( )

5. Solve **all** the questions.

a) Define why 'C' language is called as Middle level language? **4**

b) Define Ternary operators using suitable example. **4**

c) Explain the break ( ) statement & use of statement in program. **4**

d) What is bounce checking? Explain the dot operator with suitable example. **4**

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