2BIT3 - Paper-III : Structured Programming with C

P. Pages : 1

GUG/S/18/5550

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Time : Three Hours

Max. Marks : 80

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Notes : 1. All questions are compulsory and carry equal marks.
2. Draw Neat and labelled diagram and use supporting data wherever necessary.
3. Avoid vague answers and write specific answer related to questions.

1. **Either**

a) What are the different Datatypes available in C? Explain in brief. **8**

b) Explain the keywords and identifiers with suitable example? **8**

OR

c) What is operators? List the different types of operators? Explain any one type of operator. **8**

d) Explain printf () and scanf () statement with a suitable example? **8**

2. **Either**

a) What do you mean by conditional statement? Explain the various conditional statement supported by 'C' ? **8**

b) Write a difference between while and do-while loop? **8**

OR

c) Write a program to check number is prime or not. **8**

d) Explain the automatic and register storage classes. **8**

3. **Either**

a) Define function? Differentiate between user defined and library functions? **8**

b) Define array? What are need of array? Explain with suitable example? **8**

OR

c) Write in brief note on string library function? **8**

d) Write a program to check string is palindrome or not? **8**

4. **Either**

a) Explain the call by value and call by reference? Explain it with suitable examples? **8**

b) Write a program to swap two numbers using pointer variable. **8**

OR

c) Explain various file handling function. **8**

d) Write a program to copy the contents of one file into another file. **8**

5. Solve all the questions.

a) What is type casting explain with suitable example? **4**

b) What is use of Goto & Exit statement? Explain with suitable example? **4**

c) Explain with suitable example the concept of structure? **4**

d) What is pointer? Explain the advantage of pointer? **4**

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