



GUG/S/15/5572

B.Sc. (With Credits)-Regular-Semester 2012 Sem II

2SCS-T2 Computer Science -II
(Structured Programming with
'C' Paper - II)

P. Pages : 4

Time : Three Hours

Max. Marks : 50

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- Notes : 1. Draw neat and labelled diagram wherever necessary.
2. All questions are compulsory and carry equal marks.

1. Either :

- a) Explain the output statement printf() with suitable example. **5**
- b) Write a algorithm to calculate the hcf (highest common factor) of 2 integer nos. **5**

OR

- c) Explain the Arithmetic operations performed by Arithmetic operators. **5**

GUG/S/15/5572

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d) Write the steps of conceptual development of solution of a problem. **5**

2. Either :

a) Write a program to calculate factorial value of a integer no. **5**

b) Explain the Ternary operator with example. **5**

OR

c) Give syntax and example of switch statement in 'C'. **5**

d) Write a program to test a integer no is odd or even and display appropriate message. **5**

3. Either :

a) Explain the initialization of two dimensional array with example. **5**

b) Write a program to check the given string is a palindrome or not. **5**

OR

c) Define a structure that can describe a hotel with information customer name, address, grade, room charge. Write a program to assign customer information using structure. **5**

d) Explain the string handling functions. **5**

i) strlen()

ii) strcmp()

4. Either :

a) Write a function prime that returns 1 if its argument is a prime number and returns zero otherwise. **5**

b) Explain the file error handling functions **5**

i) feof()

ii) ferror()

OR

c) Explain a user defined function with no arguments and no return values. **5**

d) Write the output of the program. **5**

```
/* program */  
void main( )  
{  
int a=12, b=4, *p1, *p2, x, y, z  
p1=8a ; p2 =8b;  
x = *p1 * *p2 - 6;  
y=4*-*p2 /* p1+10;  
*p2=*p2+3 ; *p1=*p2-5 ;  
z=*p1 * *p2-6;  
printf ("ln a=%d\n b=%d\n x=%d\n  
y=%d\n z=%d", a, b, x, y, z);
```

5. Solve all the questions.

a) Write a note on interpreter. **2½**

b) Explain break statement with suitable example. **2½**

c) Differentiate between structure and array. **2½**

d) What is pointer? How is a pointer initialized. **2½**
