

ROLL No:

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Total number of pages: [ ]

Total number of questions: 06

**B.Tech. || All branches || 1<sup>st</sup> sem BTCS101A** / *II sem*  
**Fundamentals of Computer programming and** *may, 20*  
**Information Technology** *2011 onwards*

Subject Code: BTCS101A / *101*

Paper ID:

(for office use)

*Rg/RP*

Time allowed: 3 Hrs

Max Marks: 60

**Important Instructions:**

- All questions are compulsory
- Assume any missing data
- Additional instructions, if any

**PART A (2×10)**

Q. 1. Short-Answer Questions:

All COs

- (a) What is the configuration of a PC?
- (b) What is an algorithm?
- (c) What is operating system?
- (d) What is meant by booting system?
- (e) What is the purpose of Cache memory?
- (f) What will be the output of following c++ code

```
#include(iostream.h>
main()
{
int average, n1=5,n2=2;
average=n1+n2/2;
cout<<average;
}
```

(g) what is size(in bytes) of

i) long int

ii) double

(h) Write general syntax of function declaration;

(i) What is the benefit of declaring data elements as private in a class?

(j) Write any four features of MS excel.

**PART B (8×5)**

Q. 2. What is structure of a computer? Explain with the help of a block diagram.

COa

OR

What are functions performed by an operating system? Write short notes on it.

COa

Q. 3. Write any four names of browser available and which company is supporting it? What is meant by Homepage? COB

OR

How MS word is different from Notepad? Describe mailmerge feature of it. COB

Q. 4. Write an algorithm and draw flow chart for finding the smallest number out of any three natural numbers. COe

OR

Write an algorithm and draw flow chart for calculating the factorial of a ny positive natural number. COe

Q. 5. Write a program in C++ to find out whether the input string is palindrome or not. COD

OR

Write general syntax for Switch case statement of C++. What is purpose of break statement in it? COD

Q. 6. What are the benefits of Object Oriented Programming over Procedure oriented Programming? COe

OR

Write a C++ program to write below mentioned text in the file. COe

Birds can fly.

Some animals are wild.