

**Fourth Semester Examination – 2008**

**COMPUTER APPLICATIONS**

**Full Marks – 70**

**Time : 3 Hours**

*Answer Question No. 1 which is compulsory  
and any **five** from the rest.*

*The figures in the right-hand margin  
indicate marks.*



1. Answer the following questions : 2 x 10
- (a) Draw the Computer Block diagram.
  - (b) Give four important features of mainframe computers.
  - (c) Convert 437.875 to binary and 437.5 to hexadecimal numbers.

(d) Give two important advantages of operating systems.

(e) Find x, if  $x = 12 - 9/3 + (3 * 2 - 1)$

(f) Give the output using C

```
y = 98.7654;
```

```
printf ("%7.2f", y);
```

```
printf ("% e", y);
```

(g) Give the output of the program

```
# include < stdio.h >
```

```
# include < conio.h >
```

```
void main ()
```

```
{
```

```
    int m, j = 5, k ;
```

```
    m = 2 * j / 2 ;
```

```
    k = 2 * (j / 2 ) ;
```

```
    (lscr () ;
```

```
    printf ("\n m=%d k=%d", m, k);
```

```
    get ch () ;
```

```
}
```

(h) Write about the increment and decrement operators in C giving examples.

(i) What is TCP / IP in internet ?

- (j) Name two preprocessor directives used in C with examples.
2. Discuss about the computer generations – giving the period, switching devices, storage devices, speed, application software and models etc. in tabular form. 10
3. (a) Write about computer network topologies. 5  
 (b) Write the use of computers in hospitals. 5
4. (a) Write notes on Assembly language. 5  
 (b) Discuss about Dot matrix and Laser printers. 5
5. Write about following Dos Commands with some options available in each case : 2.5×4  
 (a) DIR (b) Copy  
 (c) Xcopy (d) FORMAT
6. (a) Write notes on flow chart. 5  
 (b) 60 candidates appear in an examination consists of 10 subjects and each subject

with maximum 100 marks. The names, roll numbers and marks obtained in various subjects are supplied. If minimum 40% on an average is the pass mark draw a flow chart to write the list of candidates passed. 5

7. Discuss with examples about the 5+5  
 (a) Nested I F..... E L S E statement.  
 (b) For – looping statement  
 Using the programming language C.
8. Discuss the use of internet in pharmaceutical education. 10