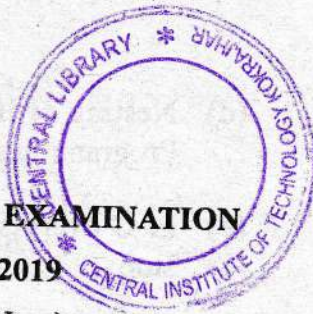


Total No. of printed pages = 8



END SEMESTER / RETEST EXAMINATION

NOVEMBER - 2019

Semester : 3rd (New)

Subject Code : CO-301

**COMPUTER APPLICATION
AND PROGRAMMING**

Full Marks - 70

Time - Three hours

The figures in the margin indicate full marks
for the questions.

Instructions :

1. Questions on PART - A are compulsory.
2. Answer any *five* questions from PART - B.

PART - A

Marks - 25

1. State true or false : 1×10=10
 - (a) CPU stands for Control Process Unit.
 - (b) Operating system is not dependent on Application Software.
 - (c) Base of Octal Number System is 16.

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- (d) Nesting of if-else statements is allowed in C Programming.
- (e) In C every statement is terminated by a full stop.
- (f) HTTP is a protocol.
- (g) Using mkdir command we can create a file.
- (h) 2's complement of 101010 is 010101.
- (i) A variable is a named memory location.
- (j) WAN stands for World Area Network.
2. Fill in the blanks :
- (a) Full form of URL is _____.
- (b) MODEM is a _____ device.
- (c) 1 TB is equal to _____ Bytes.
- (d) In C language _____ type of variable needs only 1 byte to store.
- (e) First Generation computers used _____.
- (f) In _____ topology every node is directly connected to all other nodes in the network.



1x10=10

10/CO-301/CA&P(N) (2)

- (g) Decimal equivalent of 1001 is _____.
- (h) MS-OFFICE is developed by _____.
- (i) *Google* is an example of _____.
- (j) Optical Fibre Cable is a type of _____.
3. Choose the correct answer : 1x5=5
- (a) Which of these is not the view of PowerPoint ?
- (i) Slide Show view (ii) Slide Sorter view
- (iii) Normal view (iv) Outline view
- (b) What happens when you press Ctrl + X after selecting some cells in Excel ?
- (i) The cell content of selected cells disappear from cell and stored in clipboard.
- (ii) The cells selected are marked for cutting.
- (iii) The selected cells are deleted and the cells are shifted left.
- (iv) The selected cells are deleted and cells are shifted up.



10/CO-301/CA&P(N) (3)

[Turn over

(c) Which items are placed at the end of a document ?

- (i) Footer
- (ii) Foot Note
- (iii) End Note
- (iv) Header

(d) What should be the output of below program ?

```
void main ()  
{  
    int a = 10/3;  
    printf (“%d”, a);}  
}
```

- (i) 3.33
- (ii) 3.0
- (iii) 3
- (iv) 0

(e) WWW stands for

- (i) World Whole Web
- (ii) Wide World Web
- (iii) Web World Wide
- (iv) World Wide Web

10/CO-301/CA&P(N) (4)

PART - B
Marks - 45

4. Discuss briefly : 3×3=9

- (a) Von Neuman Architecture
- (b) Functions of Operating System
- (c) Various transmission media

5. Convert the following : 3×3=9

- (a) 78.15₍₁₀₎ to binary
- (b) 123₍₈₎ to hexadecimal
- (c) 10110.101₍₂₎ to decimal.

6. What will be the output of the following program ? 3×3=9

```
(a) #include <stdio.h>  
#include <conio.h>  
void main ( )  
{  
    int a = 5, b = 6; a = b++;  
    clrscr ();  
    printf (“\na = %d b = %d”, a, b);  
}
```

10/CO-301/CA&P (N) (5)

[Turn over



```
(b) #include <stdio.h>
#include <conio.h>
void main ( )
{
```

```
int sum, index; sum = 0; index = 9;
do {
```

```
index = index -1;
sum = 2*sum;
```

```
} while (index > 9);
```

```
printf ("Sum = %d", sum); }
```

```
(c) #include <stdio.h>
```

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

```
void main ( )
```

```
{
```

```
char c = 'a';
```

```
clrscr ( );
```

```
printf ("%c\n", c);
```

```
printf ("%4c\n", c);
```

```
printf ("% -4c\n", c);
```

```
}
```

10/CO-301/CA&P (N)

(6)

7. Differentiate between : 3×3 = 9

(a) Hardware and Software

(b) RAM and ROM

(c) Bus topology and Star topology

8. Write C program

(a) To find largest of three numbers. 4

(b) To insert an element in an array. 5

9. Answer the following :

(a) Write the syntax and give example of any four DOS command. 4

(b) Convert the following if statement into equivalent switch statement : 5

if (GP < 15000) PT = 0;

else if (GP < 25000) PT = 50;

else if (GP < 35000) PT = 100;

else PT = 150;

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(7)

[Turn over

10. Write short notes on any *three* : $3 \times 3 = 9$

- (i) BCD
- (ii) Internet Services
- (iii) Flowchart
- (iv) Output devices.