

OLD
Part-II 3-Tier
2017
COMPUTER SCIENCE
(General)
PAPER—III (Set-1)
(PRACTICAL)
Full Marks : 100
Time : 3 Hours

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

Group—A

Answer any one question.

1×20

1. Construct an Or gate using NANO gates only. verify the truth table.
2. Implement the following circuit using basic gates :

$$f(A, B, C) = \bar{A}BC + A\bar{B}C + ABC\bar{C}$$

3. Design a full adder using any one kind of universal gate.
4. Construct a 4 : 2 encoder verify the truth table.
5. Construct a 4×1 MUX and verify its truth table.
6. Design a half subtractor using basic gates.

(Turn Over)

Group—B
(FORTRAN / BASIC)

Answer any *one* question.

1×20

1. Write a Program to to check it an integer is prime or not.
2. Write a program to print the following sequence.

```

*
*  *
*  *  *
*  *  *  *
*  *  *  *  *
```

3. Write a program to search an element in an array. If the element is found print i's position and if not print a proper message.
4. Write a program to multiply two matrices.
5. Write a program to check if an integer is Armstrong or not.
6. Write a program to find the lowest among a set of numbers.

Group—C

Answer any *one* from each section.

3×5

DOS (Section — I)

1. Write a DOS command to list all the hidden files of a directory.
2. Write a DOS command to list all the files in current directory which starts with 'S'.

3. Write a DOS command to rename a file.

UNIX / LINUX (Section — II)

1. Write command in UNIS / LINUS to display the details of a file named 'abc txt'.
2. Write a command in UNIX / LINUX to create an empty file.
3. Write a command in UNIX / LINUX to display name of the present working directory.

WINDOWS (Section — III)

1. How to change the background / wallpaper in desktop.
2. Create a folder in D drive and hide it.
3. Copy a file which is on desktop and paste it in two different directories.

Group—D

[MS - WORD]

Answer any *one* question.

1×10

1. Create the front page of the practical noe book of any of your subject.
2. Write a letter to your head of the department seeking permission to organise the farewell cereomony of your seniors.
3. Write a notice to all the students of your department informing them the schedule of the departmental football match.

Group—E**[MS - EXCEL]**

Answer any one question.

1×15

1. Construct the following table :

<i>Batsman</i>	<i>Run in Match 1</i>	<i>Run in Match 2</i>	<i>Run in Match</i>
Smith	83	46	112
Kohli	37	119	62
Peterson	95	19	38

Find the average & total runs of each batsman. Create a bar diagram considering the total runs of each batsman.

2. Create a table as following :

<i>Book</i>	<i>Price per Copy</i>	<i>Total Order</i>	<i>Discount</i>
Let us C	320/-	15	15%
Data Structure	285/-	10	10%
MS-Office	430/-	20	30%

Find the total amount to be paid for each book considering the discounts.

Viva-voce**10****Practical Note Book****10**