OLD

Part-II 3-Tier

2016

COMPUTER SCIENCE

(General)

PAPER—III (Set-2)

(PRACTICAL)

Full Marks : 100

Time : 6 Hours

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

Answer any *five* questions taking *one* from each group.

Group—A

(Digital Electronics)

Answer any *one* question   1×20

1. Construct a 4×1 MUX using NAND gate only.

2. Show that NOR gate a universal gate.

3. Construct a full adder circuit using minimum number of NAND gate only.

4. Implement the following boolean function using **basic gates** —

$$f(a, b, c) = \sum(2, 4, 6, 7)$$

5. Design a full substructor for using basic gates.

6. Implement the following circuit using basic gates—

$$f(a, b, c) = a'\,b'\,c + a'\,b'\,c' + a'\,bc + ab'c\,.$$

7. Design a half adder circuit using NOR gates only.

Group—B

(FORTRAN / BASIC)

Answer any *one* question.   1×20

1. Write a program that calculate the factorial of a number.

2. Write a program to join two strings.

3. Write a program that generate first 10 non-fibonacci numbers.

4. Write a program to display your last name first.

5. *Write a program* that shows * as following manners—

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

6. Write a program to generate prime number series upto n number.

7. Write a program to sort an array using any sorting technique.

8. Write a program to search an array using any searching technique.

9. Write a program to add two matrices.

Group—C

Answer any *one* from each section.   3×5

DOS (Section — I)

1. Write a command to delete a file from drive D.

2. Write a Command to display all the files with extension C in current directory.

3. Write a command to set the current data and time.

UNIX / LINUX (Section — II)

1. Write a command in terminal to determine the present working directory.

2. Display the concept of a file.

3. Write a command in terminal to display long listing of all directories & files from the current directory.

WINDOWS (Section — III)

1. Create a new folder on desktop and rename it.

2. Change the desktop background & screen saver.

3. Change the current theme of Windows.

Group—D

[MS – WORD]

Answer any *one* question. 1×10

1. Create a word file that contains following features —

   (i) Drop caps ;

   (ii) Clipart ;

   (iii) Bold, Underline.

2. Create a cover page of your class note book using MS-Word.

3. Write a bio-data which contains personal details and educational qualification using MS-Word.

Group—E

[MS – EXCEL]

Answer any *one* question. 1×15

1. Create a routine of your class.

2. Create following table :

Student Name	Bengali	English	Math	Science	Total
Arnab	70	73	46	49	?
Baisakhi	75	68	60	62	?
Chandan	62	49	82	87	?
Average	?	?	?	?	?

· Find the total marks of each student. Also find the average marks obtained in each suibject.

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Practical Note Book   ***10***

Viva-voce   ***10***

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