

**XSC-CMS-(Prac)-SC  
Science/Commerce**

**PR-605-XII**

No. of Questions - 5 ]

[ No. of Printed Pages - 4

**2018**

**COMPUTER SCIENCE**

**PRACTICAL**

**Full Marks - 30**

**Pass Marks - 10**

**Time - 3 Hours**

**GROUP - A**

1. Answer any *two* of the following questions :

$$5 \times 2 = 10$$

a) Write a program in C++ to calculate the sum of the following series :

$$S = \frac{x^1}{1} + \frac{x^3}{2} + \frac{x^5}{3} + \dots \dots \dots \text{up to } nth \text{ term}$$

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b) Write a program in C++ to find number of vowels and consonants in a given line of text.

c) Write a program in C++ to accept 10 integer numbers from user in single dimension array and arrange the numbers in descending order.

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d) Write a program in C++ to create two matrices of size  $M \times N$  and  $R \times P$  where  $M, N, R, P$  are user inputs. Find the sum of input matrices and display all three matrices.

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**GROUP - B**

2. Given the Students relation. Write SQL Commands for questions (i) to (v) : 1 × 5 = 5

Sl_No.	Name	Age	Department	Date_of_adm	Charges	Sex
1	Ashok	22	Computer	10/01/98	320	M
2	Neha	23	History	24/03/99	400	F
3	Karan	22	Hindi	12/12/97	500	M
4	Karishma	21	History	01/07/99	600	F
5	Amit	22	Hindi	05/09/98	350	M
6	Vijay	21	History	27/06/99	400	M
7	Ajit	23	Computer	25/02/98	310	M

- i) To show all information about the students of Hindi department.
- ii) To list the names of female students who are in History department.
- iii) To list the names of all students with their date of admission in ascending order.

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- iv) To count the number of students with age <22.
- v) To display student's name, fee, age for female students only.

**GROUP - C**

- 3. Practical File. 5
- 4. Project Work. 5
- 5. Viva-voce. 5

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