

**2020**  
**Computer Science – General – Practical**  
**Forth Paper**  
**Group B**  
**Full Marks – 50**

**Marks distribution:**

**Group-A: Experiment      35 Marks**

**Group-B: Viva              15 Marks**

**Group-A (Answer any one question)**

1. Write a shell program to find the factorial of a number.
  
2. Write a program to check the year is leap year or not.
  
3. Write a shell script to print Fibonacci series up to a given number.
  
4. Write a program in Visual Basic where three scrollbars represents for RED, GREEN, BLUE Color (each scrollbar represents the color range of 0-255). By changing the values of these scrollbars the form background color must Change.
  
5. Write a program in Visual Basic through which take System time and display all the parts of time (HH:MM:SS, Day, Date, Month, Year) in separate labels. The Time should change according to the system time continuously.
  
6. Write a Visual Basic program to display the operation as STOP WATCH. Use three buttons for START, STOP and RESET.

***Group-B (Answer any three questions)***

***3x5=15***

- 1. What is Shell?***
- 2. Explain CAT command***
- 3. Explain GREP Command***
- 4. Explain ECHO Command***
- 5. Give an example of if – else if – else in shell program.***
- 6. What are the differences between Textbox and Label in VB?***
- 7. What are the differences between Combo box and List box in VB?***
- 8. What are the differences between Picture box and Image box in VB?***
- 9. What is the use of Timer in VB?***
- 10. Give an example of FOR LOOP in bash shell.***