

SECTION "B" SHORT QUESTION ANSWER (Marks: 36)

NOTE: Answer any 9 questions from this Section. All questions carry equal marks.

- Q.2 What is Wallpaper? How can we change the wallpaper?
- Q.3 Classify the monitor according to colour capabilities.
- Q.4 Where we can find the desktop icons in the Windows Operating System? A desktop icon? = A Seder send over there?
- Q.5 State and prove De Morgan's laws:
 (i) $(A + B)' = A' \cdot B'$ (ii) $(A \cdot B)' = A' + B'$
 (iii) $(A + B) = A' \cdot B'$ (iv) $(A \cdot B) = A' + B'$
- Q.5 - Difference between SRAM and DRAM.
- Q.7 Why do we need an Operating System?
- Q.8 Convert the following into given equivalent system:
 (i) $(10110100111)_2 = (?)_{16}$ (ii) $(1705)_8 = (?)_{10}$
 (iii) $(340)_{10} = (?)_2$ (iv) $(10001101)_2 = (?)_8$
- Q.9 Define 1st generation of computer. Name any three famous computers of 1st generation.
- Q.10 Give the appropriate DOS command for the task given below:
 (i) Print a file ABC.TXT to printer
 (ii) Change the directory from XYZ to ROOT.
 (iii) Show the list of all files whose name starts with the letter 'C'
 (iv) Copy the entire contents of a disk to another disk
- Q.11 Solve the following Binary numbers.
 (i) $(1110011)_2 + (1101)_2$
 (ii) $(1101011)_2 + (1111)_2$
 (iii) $(10101011)_2 - (1011011)_2$
 (iv) Find the 2's complement of $(101011)_2$
- Q.12 What do you mean by pointing input device? Write any two examples of such devices.
- Q.13 With the help of Karnaugh map, simplify the following expression.
 (i) $\overline{A}BC + A\overline{B}C + A\overline{B}\overline{C} + A\overline{B}C$
 (ii) $\overline{A}BC + A\overline{B}C + A\overline{B}\overline{C} + A\overline{B}C$
- Q.14 Define a hybrid computer which consists of both Analog and digital devices.
- Q.15 State and prove the Demorgan's equation:
 $\overline{A \cdot B} = \overline{A} + \overline{B}$

SECTION "C" (DETAILED ANSWER QUESTIONS) (Marks 24)

NOTE: Attempt any FOUR questions from this section. All questions carry equal marks.

- Q.16 What is Karnaugh Map? How can K-Map help to simplify a Boolean expression?
- Q.17 Define C.P.U. Describe its functions and draw block diagram.
- Q.18 Define the various coding schemes used in the computer system.
- Q.19 Define Keyboard. Explain its different parts.
- Q.20 What is Windows desktop? Explain its important elements.
- Q.21 Define ports and its types in detail.