

FIRST TERM EXAMINATION 2022-2023

Class - VIII

F.M : 100

Subject - COMPUTER APPLICATION

Time : 2 Hrs.

A Tick the correct answer:

[5x1=5]

- i. Which of the following component of a computer system which can not feel and touch?
a Software b. Hardware c. Operating System
- ii. A formula is always begins with:
a sign b. = sign c. ; sign
- iii. A range of cells is always separated by a :
a (colon) b (semicolon) c / (slash)
- iv. Category axis is
a. Z-axis b. X-axis c. Y-axis
- v. What is general direction of flow in any flow chart?
a. Top to bottom b. Left to right c. Both a or b

B. Fill in the blanks:

[5x1=5]

- i. We use _____ to solve mathematical problem.
- ii. _____ are raw facts or figures.
- iii. Click _____ option in the sort & filter group to remove the filter.
- iv. A _____ chart illustrates comparisons between individual item.
- v. The term RTOS stands for _____

P.T.O

Section - B (5×10=50)

Answer any five

- 1 a) Find the square root of 18 1478 (4)
 b) Factorize $x^3 - x^2 - xy + x + y - 1$ (2)
 c) Construct a parallelogram ABCD in which BC = 6cm, CD = 4cm, and $\angle C = 60^\circ$ (4)

- 2 a) If $Z - \frac{1}{Z} = 8$, find the value of
 i) $Z + \frac{1}{Z}$ ii) $Z^2 + \frac{1}{Z^2}$ (2+2)

b) Evaluate $\left(7\frac{3}{4}\right) \cdot \left(2\frac{1}{4}\right)$

(2)

- c) Find the volume of the cylinder in which height = 42cm; base radius = 10cm (4)

- 3 a) The result declared by a school was as under :

Passed in first division	Passed in second division	Passed in 3rd division	Failed
25%	45%	20%	10%

Represent the above data by a pie chart (4)

b) Expand : i) $\left(\frac{x}{2} + \frac{y}{3}\right)^2$

ii) $\left(3x - \frac{1}{3x}\right)^2$ (2+2)

- c) Factorize : $27a^3b^3 - 45a^4b^2$ (2)

- 4 a) Find the least square number which is exactly divisible by each of the numbers 8, 9, 10 and 15 (4)

b) If $a^2 + b^2 = 52$ and $ab = 24$ Find the value of $a-b$ (2)

c) Pipe A can fill a cistern in 4 hours while pipe B can empty it in 6 hours. If both of them are opened at the same time when the cistern is empty. How many hours will it take to fill the cistern (4)

5. a) A swimming pool $70\text{m} \times 44\text{m} \times 3\text{m}$ is filled by water issuing from a pipe of diameter 35 cm at 6 m per second. How many hours does it take to fill the pool (4)

b) Draw a histogram to represent the following data (4)

Weight (in kg)	No. of teachers
45-50	2
50-55	8
55-60	11
60-65	7
65-70	3

c) Evaluate : 88×92 (2)

F. a) A can dig a trench in 6 days while B can dig it in 8 days. They dig the trench working together and received Rs. 1120 for it. Find the share of each of it. (4)

b) The volume of a cube is 343cm^3 . Find its surface area. (4)

c) Factorize : $a^2 - 14a + 49$ (2)
