

c) RAM
d. Distinguish N-type and P-type semiconductors. Semiconductors are the brain of modern electronics.
Comment.

Q. No. 3

- What causes a cyclone? In which part of cyclone winds are the strongest and destructive?
- What is a black hole and how is it formed?
- Discuss the rotation and revolution of the earth, and its structural parts.
- Distinguish ionic and covalent bonds with examples.

Q. No. 4

- What are the causes of water pollution?
- What are the goals of the Glasgow climate pact?
- Give any 5-uses of remote sensing.
- Discuss any 5-applications of artificial intelligence.

Q. No. 5

- Give structure and functions of human eye.
- What is digestive system? What is the role of small intestine in digestion?
- Write a short note on Vitamins.
- Describe the functions of pituitary glands.

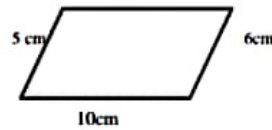
SECTION-II

Q. No. 6

- 172 is considered to be magic number for a no-confidence motion for the premier in the national assembly of Pakistan. 172 is what percent of total numbers of NA?
- A family consists of 2 grandparents, 2 parents and 3 children. Average age of grandparents

Is 67 years, that of parents is 35 years and that of grandchildren is 6 years. What is the average age of the family?

- What is the area and perimeter of the below figure :



- Asghar left a property worth of 4, 80,000, find the share of his widow, three sons, and 4 daughters?

Q. No. 7

- Yasir is 15 years older than Zia. 5 years ago Yasir was 3 times as old as Zia. Find the present age of Yasir?
- Find the missing one:
7, 26, -----, 124
- If $\dot{U} = \{1, 2, 3, 4, 5, 6, 7, 8\}$
and $A = \{2, 3, 5, 7\}$
Find $A \dot{\cup} A^c$
- Define the following
A. Arithmetic mean
B. IQ
C. EQ
D. Range of DATA
E. Histogram and pictogram

Q. No. 8

- A travels 35 km towards the west, takes a right turn and travels 50 km more next, she takes another right turn and travels 35 km in that direction. How far is she from her original position?
- If A is the husband of B and C is the mother of D and B. How is C related to A?
- If SUMMER is written as RUNNER, how WINTER will be coded in the same code?
- 7 persons live in a street, having a house in a line. Consider the following:
1- A lives in the corner's house
2- C is in between E and G
3- There is one house between D and F
4- F is neighbor of G
5- There are two houses between A and G
Who lives in the 2nd corner?

***** We wish you Good Luck for CSS-2022*****

Attempt in detail by showing all steps and add statements

$$\text{Q6a} = \frac{172}{342} \times 100 = 50.3\%$$

$$\text{Q6b} = \frac{67+35+6}{7} = 15.4$$

$$\text{Q6c} \quad A = L \times b = 10 \times 6 = 60 \text{ cm}^2$$

$$\text{Q6d} \quad P = (30) \text{ Am}$$

$$\text{Q6d} =$$

$$\text{wife} = 4,80,000 \times \frac{1}{8} = 60,000$$

$$\text{reming} = 4,20,000$$

now, 3 Sons + 4 daughters

$$\text{so, } 4,20,000 \times \frac{3+4}{7} = 1,80,000$$

Daughter
2,40,000

Q7 a)

$$Z_{1a} = x$$

$$x_{1a} = 3x$$

$$\text{Sy} = \text{ag} = Z = x + 5$$

$$X = 3x - 5$$

to day

$$Z = x$$

$$X = x + 15$$

so,

$$3x - 5 = 15 + (x + 5)$$

$$\therefore 2x = 15$$

$$x = 7.5$$

$$\text{now} = x + 15$$

$$7.5 + 15$$

$$= 22 \frac{1}{2}$$

$$22.5 \text{ Dir.}$$

$$4^3 - 1 = 63$$

2 b)

$$7, 26, \textcircled{63}, 124$$

$$\therefore 2^3 - 1 = 7 \text{ and } 3^3 - 1 = 26 \text{ \& so } 5^3 - 1 = 124$$

$$C = A \textcircled{U} A^c$$

→ is it mistake?

$$A^c = U - A = (1, 4, 6, 8)$$

$$\cancel{U^1 = U - U = \emptyset}$$

$$A \cup A^c$$

$$2, 3, 5, 7 \cup 1, 4, 6, 8$$

$$1, 2, 3, 4, 5, 6, 7, 8$$

Q: 8

c- SUMMER - RUNNER

WINTER -

VIOUER

an.

Explain the logic of the given qs first and then translate that to the asked part.

Q: 8 d

Very short answers

