

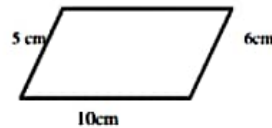
- c) RAM
- d. Distinguish N-type and P-type semiconductors. Semiconductors are the brain of modern electronics.
Comment.
- Q. No. 3
- What causes a cyclone? In which part of cyclone winds are the strongest and destructive?
 - What is a black hole and how is it formed?
 - Discuss the rotation and revolution 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?

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



- d. 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 $A \dot{U} A^c$
 - Define the following

A. Arithmetic mean	C. EQ	E. Histogram and pictogram
B. IQ	D. Range of DATA	

- 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*****

$$\textcircled{a} G = a = \frac{172}{342} \times 140 = 50.31$$

$$\textcircled{b} G = \frac{67 + 35 + 6}{7} = 15.4$$

$$\textcircled{c} G = A = L \times b = 10 \times 6 = 60 \text{ cm}^2$$

$$\textcircled{d} P = (30) \text{ Am}$$

$$\textcircled{e} G = d =$$

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

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

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,

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

$$\therefore 2x = 15$$

$$x = 7.5$$

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

$$7.5 + 15$$

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

$$22.5 \text{ Ans.}$$

$$4^3 - 1 = 63$$

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?

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

~~$$U^c = U - U = \{ \}$$~~

$$A \cup A^c$$

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

$$\{1, 2, 3, 4, 5, 6, 7, 8\}$$

Q: 8

c- SUMMER - RUNNER

WINTER -

VIOUER

an.

Q: 8d