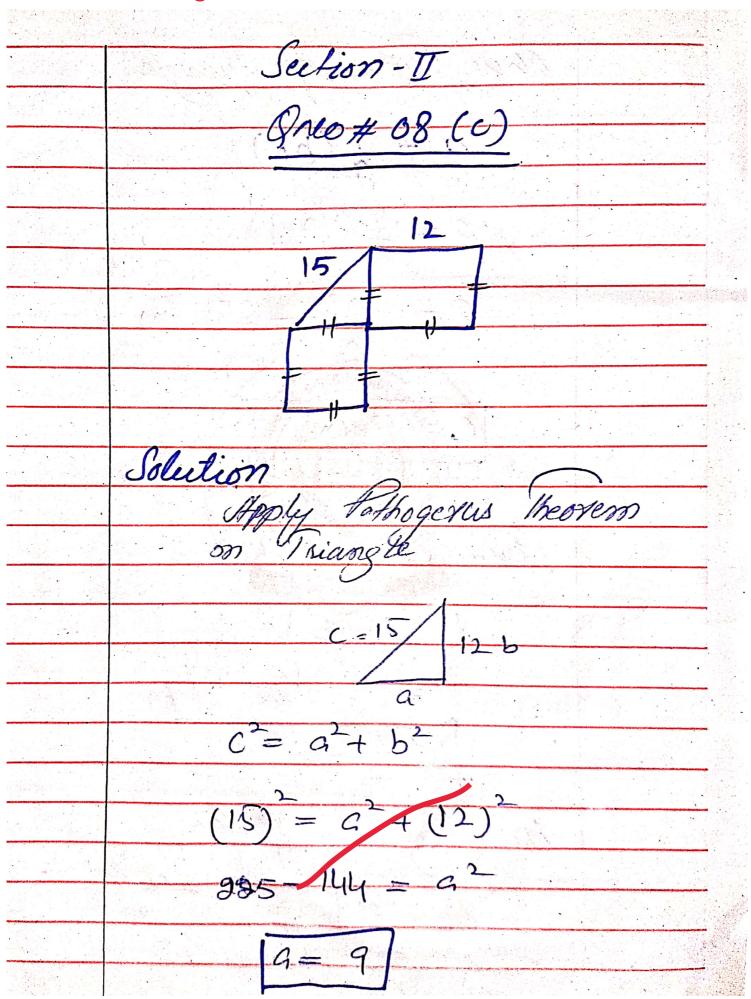
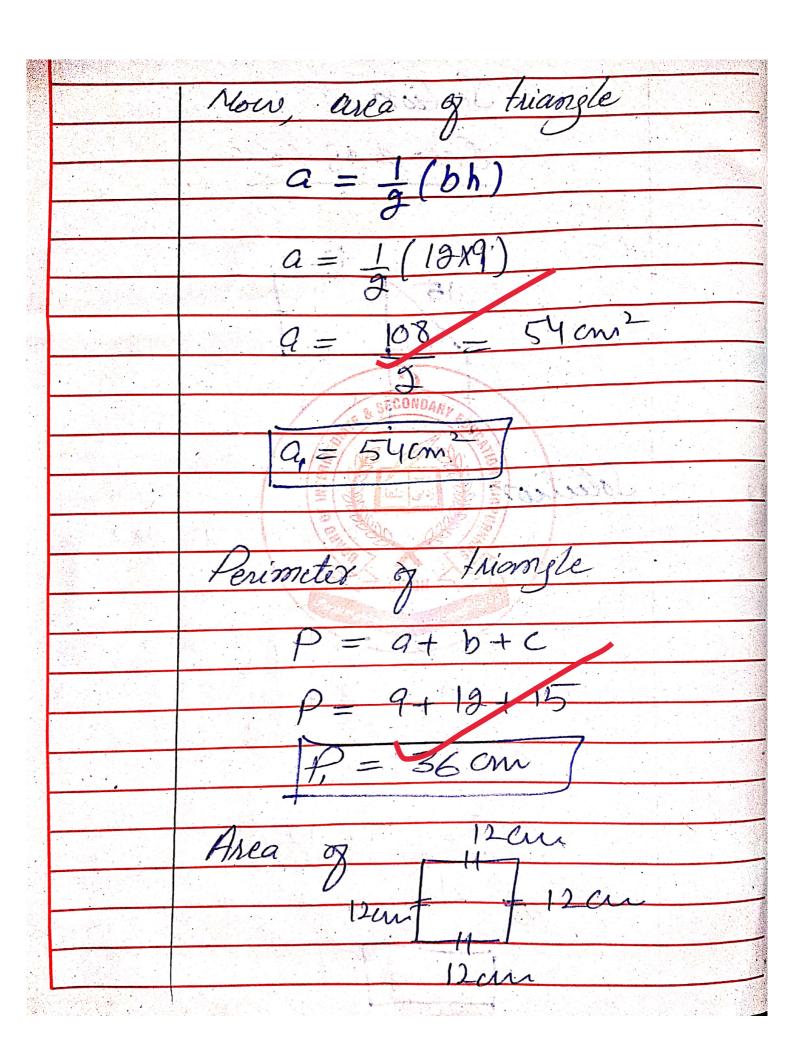
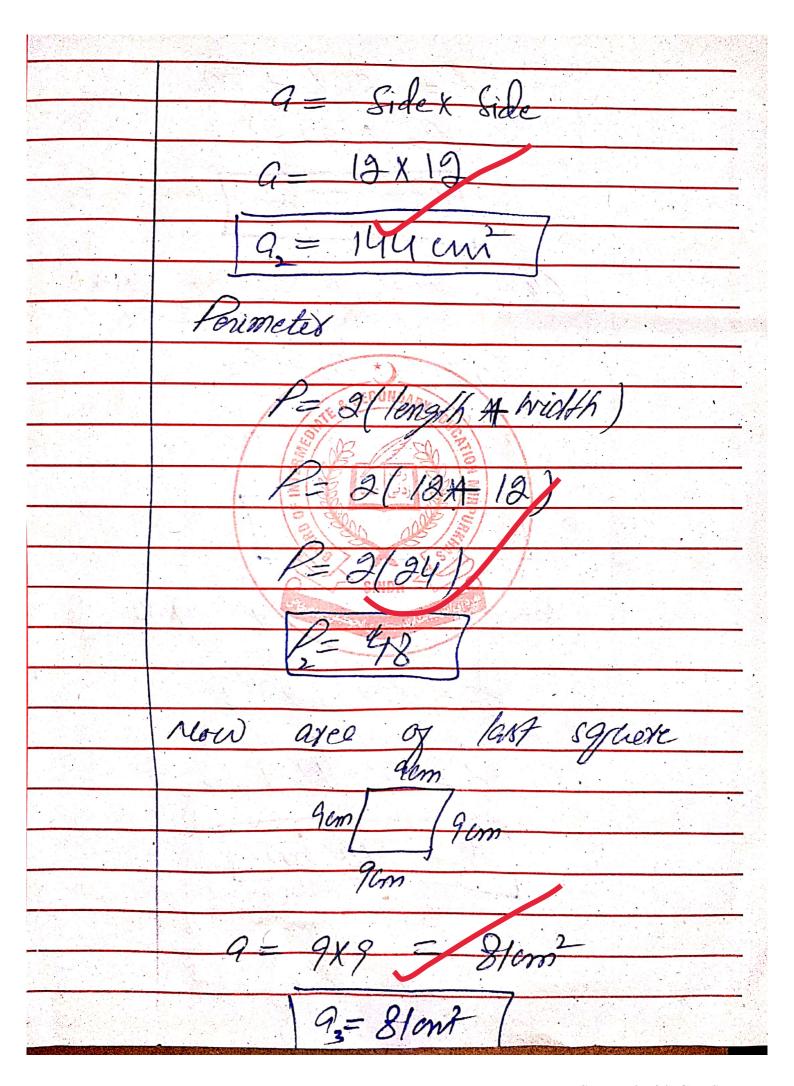
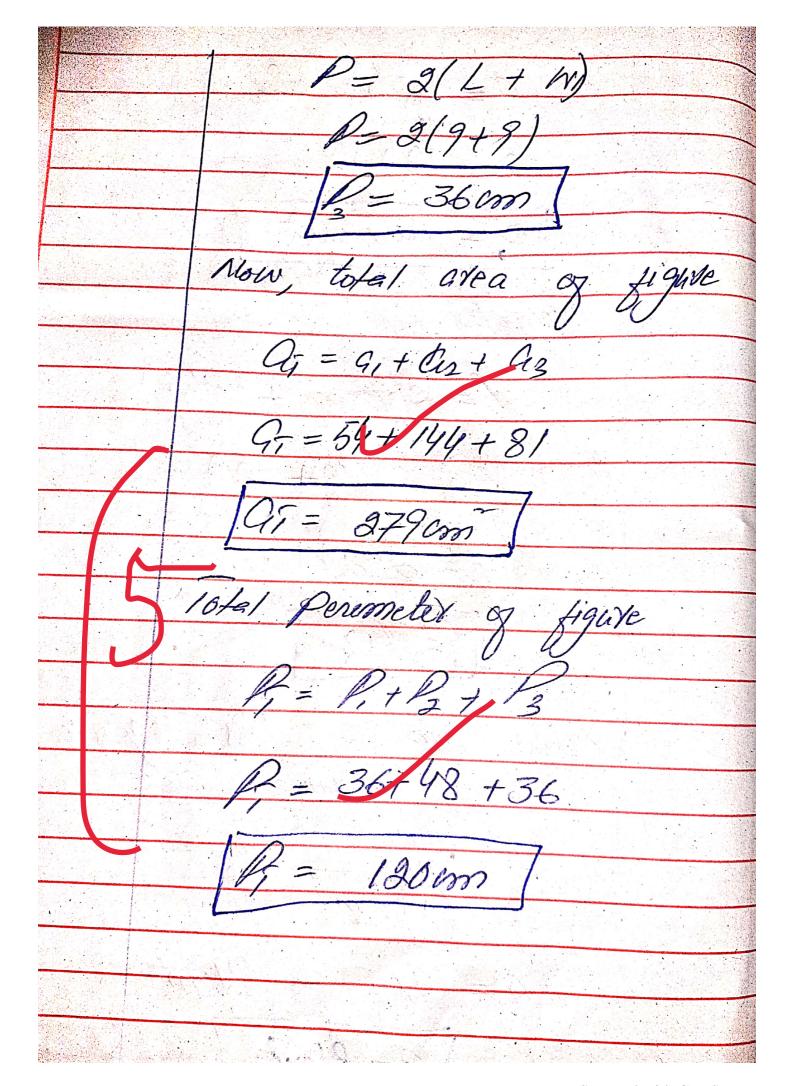
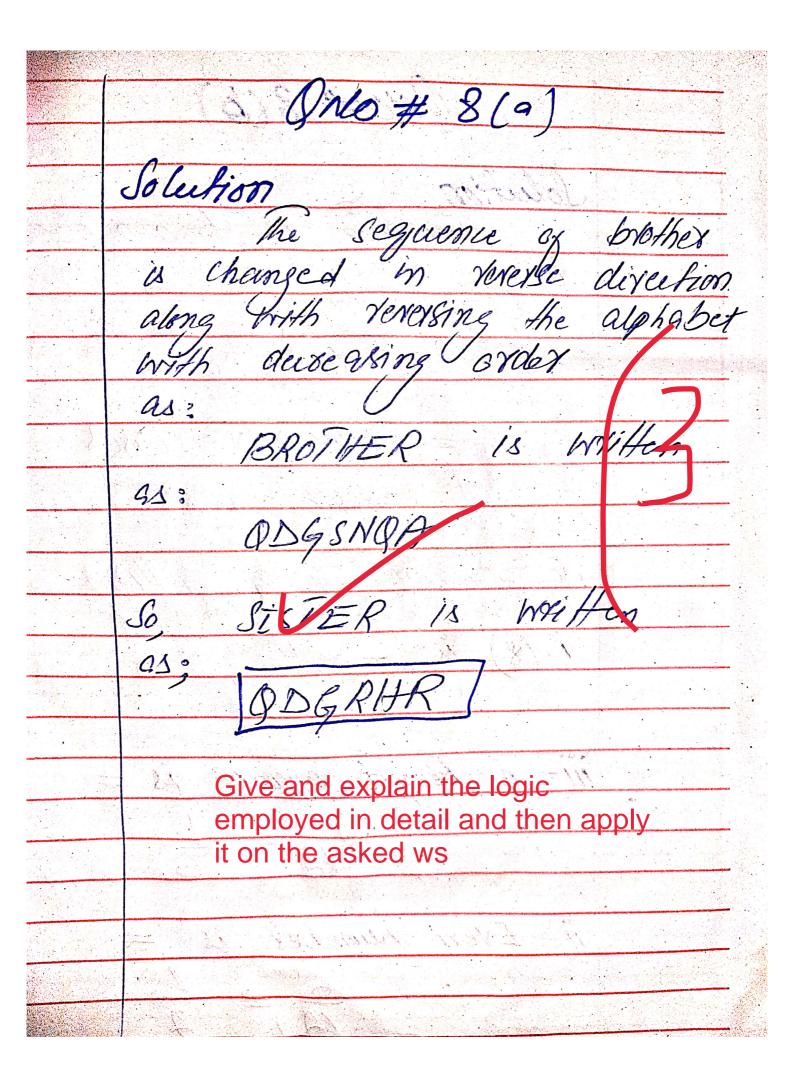
Overall good answers!!

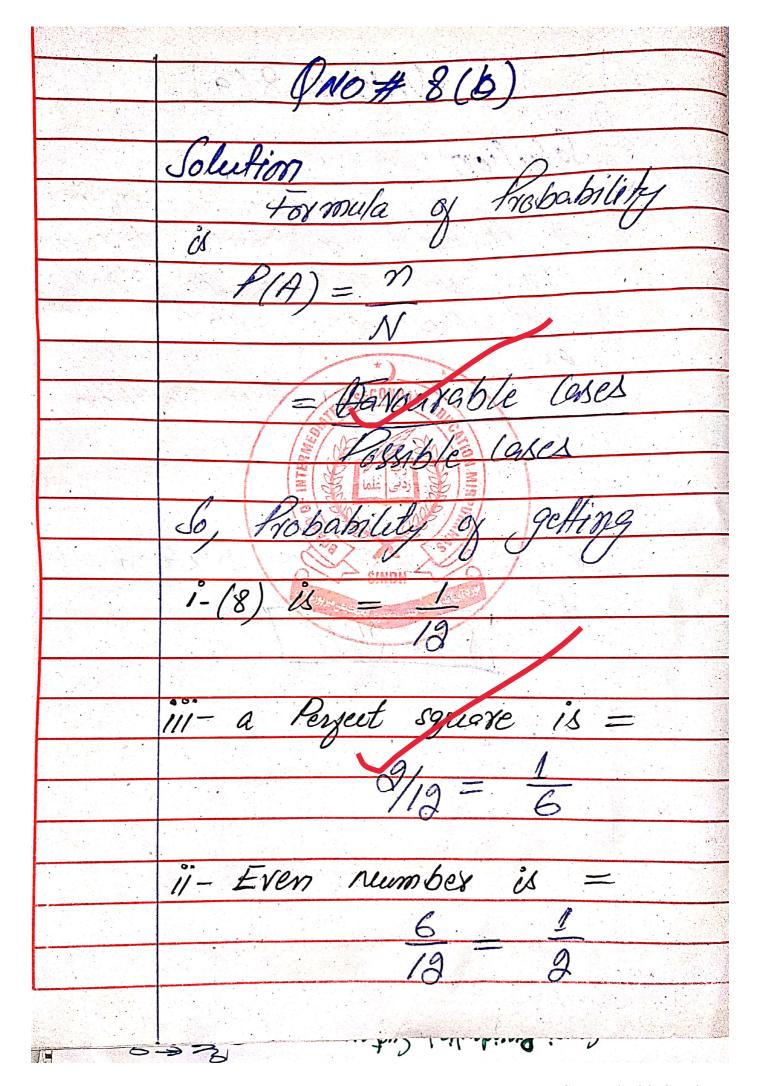


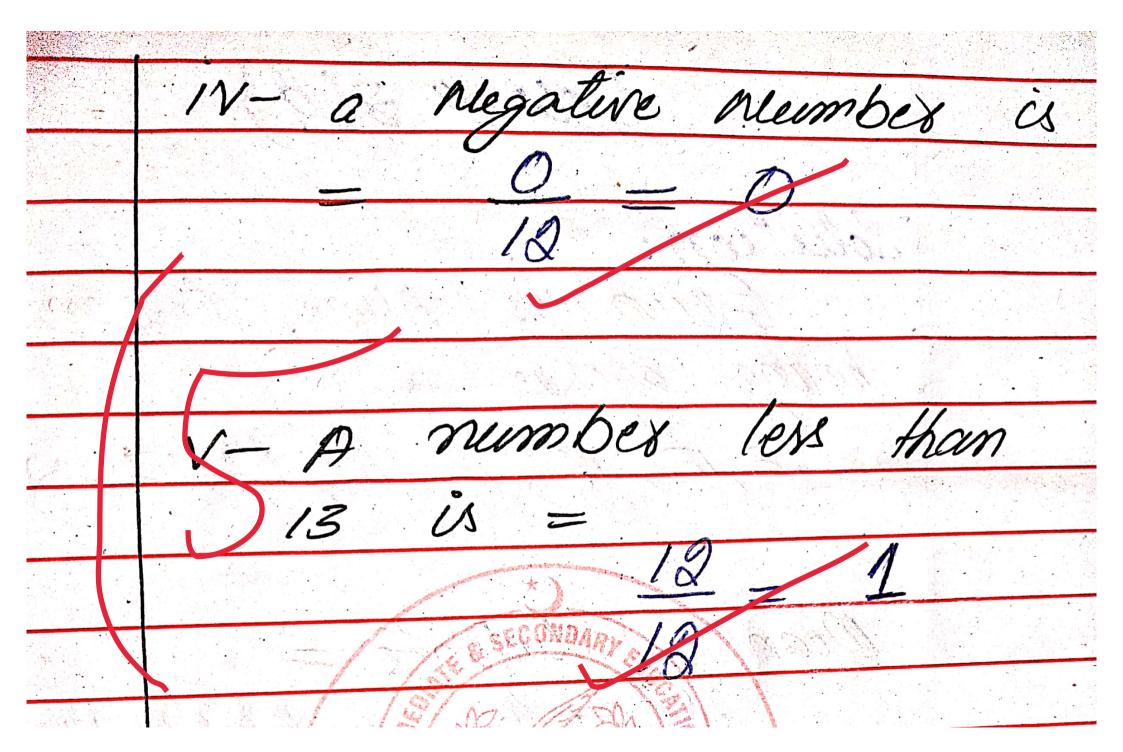


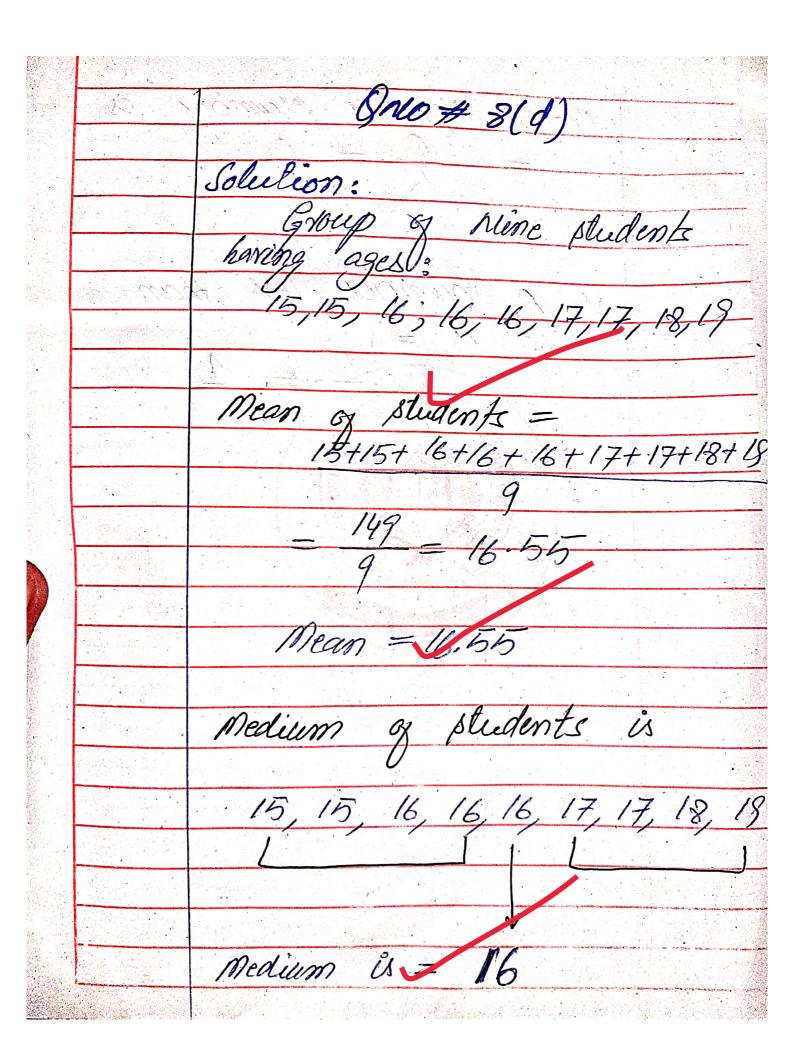


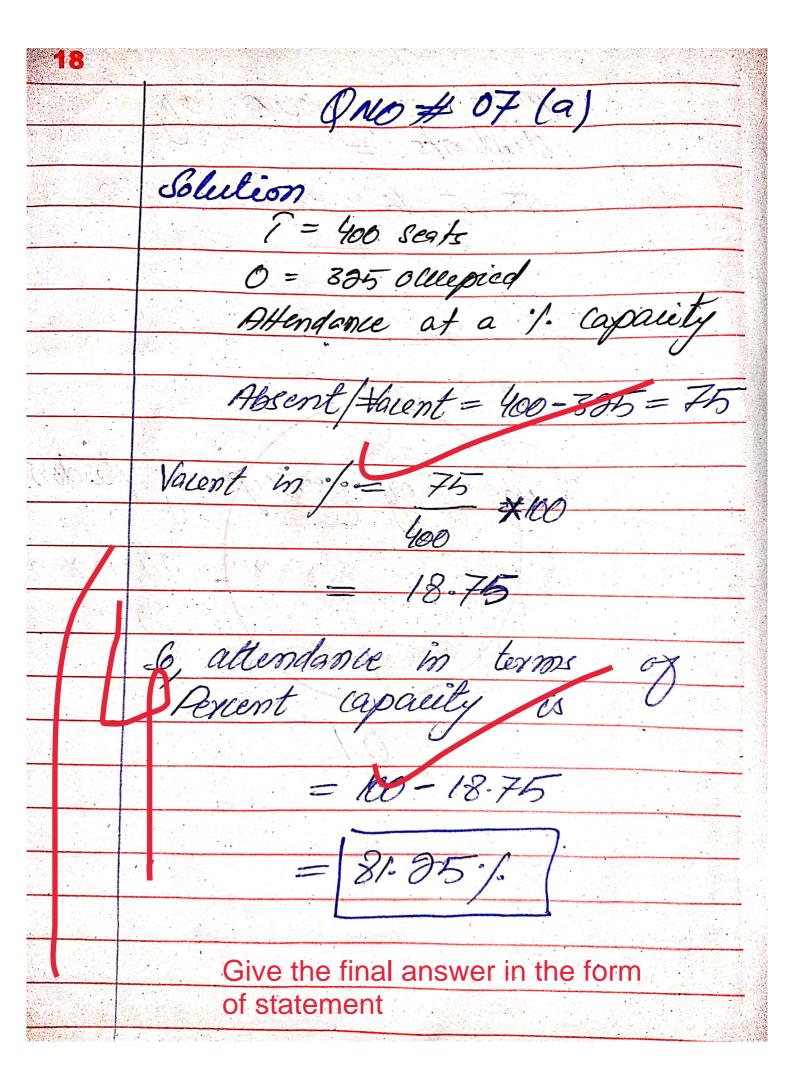


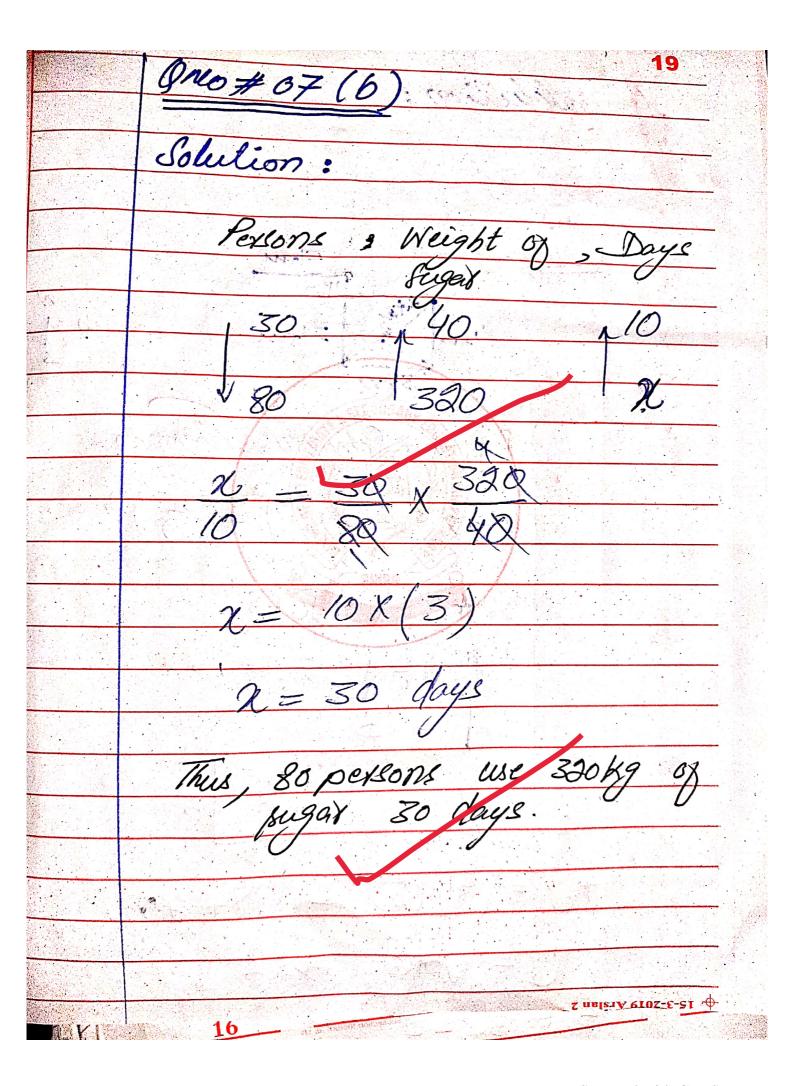












7					
		Theis	Crow	ÖS	6km
	away	Nom	ik	Origi	nal
	posit	ion.			

	QNe0 # 07 (d)
	Solution
	R = 100m
a referred	h = 360m
	V = 2?
	Volume of Cylindes = TYh
	V= TX(10)736
	V= T 100 x 36
	V= 3600 \(\tau\)
	V= 3600 x 3.24 cm3
	V= 11,308.7cm3

	QN0#04(C)
	에게 되는 물이 되어 시작하다 그리고 맛이 나가 있다면서 이렇게 하셨습니까? 그리고 있는 생생님은 그리고 하는 것은 그리고 있어요. 그리고 아버지는 그는 사람이
	Types of Waves Used in:
	RADAR:
1	RADAR: Radas Uses Radio-wave to determine distance and angle of Objects
	to détermine distance and
	angle of objects
	SONAR:
	Sonar cuses althorasonic
	waves for its objects
	LIDAR:
	Lider uses visible of
	light of radiofion to defect

				a entwert
the object				
	and the state of t			١
Mobile F				
M	obile	phone	US	es
Radio Naves its signals.	108	trans	millin	9
its signals.				
Thermistors	<b>.</b>			
	7 is	Ja,	Therma	lly
sensitive ver	sistors.	that	chas	lges
value with	the	Temp	esaturi	2.
	×			
		1		
				ŀ

### NOTE:

- i. Part-II is to be attempted on the separate Answer Book.
- Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.

# PART-II SECTION-I

### Q. No. 2

- a. Pakistan suffered a loss of \$40bn due to heavy floods of 2022; in this context climate finance is the central question for developing countries. Discuss in the light of COP-28 going to start in UAE.
- b. Distinguish water-soluble and fat-soluble vitamins. Give examples of diets containing different vitamins.
- c. Explain the structure of Eye.
- d. Draw a flow chart of different parts of Brain.

#### O. No. 3

- a. Global warming is a wild beast and we all are poking at it which sticks, justify.
- b. What is the origin of universe, how age of universe can be calculated?
- c. Write a short note on semi-conductors.
- d. What is eclipse? Distinguish between solar and lunar eclipse.

### Q. No. 4

- a. Define the following:
  - Pesticides, Herbicides, Insecticides, Ceramics, and Green House Effect.
- b. Explain the bonding in water molecule.
- c. What types of waves are used in RADAR, SONAR, LIDAR, Mobile Phone and Thermistors?
- d. What are advantages and disadvantages of AI?

### Q. No. 5

- a. Draw a block diagram of input and output devices of Computer.
- b. Define optics. How does an optical fiber work?
- c. Discuss different methods of Solid Waste Management.
- d. Distinguish GPS & GIS.

## SECTION-II

### Q. No. 6

- a. A farmer cuts a 300 ft. fence into two pieces of different sizes. The longer piece should be four times as long as the shorter piece. How long are the two pieces?
- b. If a rectangle has a length that is three more than twice the width and the perimeter is 20-inches, what are the dimensions of the rectangle?
- c. A cricket team won 60% of the total matches it played during the year. If it lost 24 matches in all and no matches were drawn, find the number of matches played during the year.
- d. Two numbers are in the ratio 3: 2. If 2 is added to the first and 6 is added to the second number, they are in the ratio 4: 5. Find the numbers.

# O. No. 7

- a. A concert hall 400 seats of which 325 are occupied. Express the attendance at a percent of capacity.
- b. If 30-persons use 40kg of sugar in 10 days. Find in how many days 80-persons will use 320kg of sugar?
- c. A crow travels south 5km, and then 3km west, and then 4km north. Finally travels 2km south-east. How far is the crow from initial point?
- d. If radius of a cylinder is 10cm and height is 36cm. Find the volume of cylinder.

## Q. No. 8

- a. If in a certain language, BROTHER is written as QDGSNQA, then in the same language, SISTER would be written as -----?
- A card is drawn at random from a box containing 12 cards numbered 1,2,3,4,5,...,12. Find the probability of drawing (i) '8', (ii) an even number, (iii) a perfect square, (iv) a negative number and (v) a number less than
   13
- Calculate the total area and perimeter of the given shape.



d. There are nine students in a group having ages 15, 15, 16, 16, 16, 17, 17, 18, 19. Calculate mean, medium, mode and range of their ages, also define the above mentioned terms.