

Instructions to participants

- 1. Do not open the booklet until you are told to do so.
- 2. Attempt ALL 65 questions.
- 3. Fill your answers neatly in the Bubble Sheet provided.
- 4. All figures are not drawn to scale.
- 5. Use of calculator is not allowed.
- 6. Questions in Section A carry 1 mark each, questions in Section B carry 2 marks each and questions in Section C carry 3marks each.

Section-A

Q1:	Round off 19,73,19,371 to the nearest ten thousand:					
	A. 19, 73, 00,000)	B. 19,74,00,00	0		
	C. 19, 73, 20,000		D. 19,73,19,00	0		
Q2:	Two numbers are	e in the ratio 7 : 9.	If the sum of the nu	umbers is 112, then the		
	larger number is	5:				
	A. 49	B. 72	С. 63	D. 42		
Q3:	3: If selling price is doubled, the profit triples. Find the profit percent.					
	A. $66\frac{2}{3}$	B. 100	C. $105\frac{1}{3}$	D.120		
Q 4: Individual Objects in a set are called:						
	A. element	B. set	C. list	D. None of these		

Q5: XUY= { 1,2,3,4,5,6,7,8,9,10 } then the set X and Y can be:

A. $X = \{1, 2, 3, 4, 5\}$ B. $Y = \{6, 7, 8, 9, 10\}$

Rough Work



Q6:	C. X={2,4,6,8,10 The least common is 5. If one of the) n multiple of two nu numbers is 25 wha	D. both A&B umbers is 225 and that will be the other n	he highest common factor umber?		
	i. 75	ii. 65	iii. 45	iv. 15		
	A. III is true. B. i,ii are true.					
	C. ii.iii are true.					
	D. i,iii are true.					
Q7:	Evaluate 28% of	450 + 45% of 280	:			
	i. 232	ii. 242	iii. 252	iv.262		
	A. 1, 1s false.					
	\mathbf{C} i ji and in are large	se. folso				
	D ii iii and iv ar	e false				
Q8:	Which of the give	n is a rational num	per:			
	A. $\frac{2}{2}$	B. 0.3333	C. $\sqrt{3}$	D. both A&B		
Q9:	16 equivalent to b	oinary system is eq	ual to:			
	A 10000	D 100000	C 1000	D 1		
O 10 ⁴	A. 10000 $2^3 \times 2^{-2} =$	D .100000	C. 1000	D. 1		
Q10	$A 2^5$	B 16	$C^{\frac{1}{2}}$	D. 2		
011	•	D . 10	0. ₂	D1-		
Q11						
Q39: What is the square root of 12?						
	A. $3\sqrt{2}$	B. $2\sqrt{3}$	C. 6	D. 4		
Q40: Which one of the given is the associative property of integers:						
A. $(2+3)+4=2+(3+4)$ B. $(2\times3)\times4=2\times(3\times4)$						
	C. $2(3+4)=2\times3+3$	2×4 D. F	Both A & B			









Q54:Median of 7, 6	, 4, 8, 2, 5, 11 is:					
A. 6	B . 12	C. 11	D. 4			
Q 55: In the interval 35-45, 45 is called:						
A. Upper lin	nit	B. Lower limit				
C. Range		D. Frequency				

SECTION-C

Q56: Zara had 21 marbles. Her friend gave her some more. She then had 35 marbles. Write an expression that shows how many marbles she had. A. 21 + 35 = 56 **B.** 21 + x = 35 C. x + 35 = 21 D. 35 - x = 21Q57: Simplify $(8u^3 + 2u^2 + 7) + (3u^3 - 7u + 8)$: A. $5u^3 - 7u^2 + 2u - 15$ B. $11u^3 + 2u^2 - 7u + 15$ C. $15 - 7u + 2u^2 + 11u^3$ D. $5u^3 + 2u^2 - 7u + 15$ Q58: a^2-b^2 is a product of: A. (a+b)(a-b) B. (a+b)(a+b) C. (a-b)(a-b)D. None of these Q59: Solve the system simultaneous equations below. x + 5y = -13 and 2x - y = 7Which of the following is the value of y? A. $y = -\frac{11}{5}$ B. y = -2 C. $y = -\frac{7}{2}$ **D.** y= - 3 Q60: Q61:



Q65: $y = \frac{7}{3}x + 5$.			
If $x = -9$ then y	what is y?		
A. 2.333	B 21	C16	D66