

DPP No. 19

Total Marks : 23

Max. Time : 22 min.

Topics	s . Jets & Relation, 3	equence & Jenes				
Type of Questions						, Min.
Single choice Objective (no negative marking) Q.1,2,3 Multiple choice objective (no negative marking) Q.7			1,2,3,4,5,6, 2.7	3,4,5,6, (3 marks, 3 min.) (5 marks, 4 min.)		18] 4]
1.	In a certain town 25%	families own a phone a	and 15% own a c	ar, 65% families own neither	a phone	e nor a
	car. 2000 families own both a car and a phone. Consider the following statements in this regard					
	1. 10% families own both a car and a phone.					
	2. 35% families own either a car or a phone.					
	3 40 000 families live in the town					
	Which of the above statements are correct ?					
	(Λ) 1 and 2	(B) 1 and 3	(C) 2 and 3	(\Box) 1 2 and 3		
	(A) T and Z	(B) Tanu S	(C) 2 anu 3	(D) 1, 2 and 5		
2.	$A \cap (B \cup A)'$ =					
	(A)	(B) A	(C) B	(D) $A \cap B$		
3.	In a school there are 20 teachers who teach mathematics or physics. Of these, 12 teach mathematics and 4 teach both physics and mathematics, the number of teachers who teach physics are-					
	(A) 12	(B) 16	(C) 8	(D) 4		
4.	Sum of all the odd numbers between 1 and 1000 which are divisible by 3 is					
	(A) 83667	(B) 167334	(C) 82667	(D) 166334		
		100	100			
5.	Let a _n be the n th terr	n of an A.P. If $\sum_{r=1}^{r} a_{2r}$	$= \alpha \& \sum_{r=1}^{\infty} a_{2r-1}$	= β , then the common diff	erence	of the
	A.P. is (A) $\alpha - \beta$	(Β) β – α	(C) $\frac{\alpha-\beta}{2}$	(D) none of the	se	
6.	The ratio of sums of $n - terms$ of two arithmetic progressions is $(3 n - 13)$: $(5 n + 21)$. The ratio of					
	24 th term of the two series is :					
	(A) 59 : 141	(B) 7 : 17	(C) 1 : 2	(D) none of the	ese	
7.	The sum of the first three consecutive terms of an A.P. is 9 and the sum of their squares is 35. Then					
	sum to n terms of the series is :					
	(A) n (n + 1)	(B) n ²	(C) n (4 - n	n) (D) n (6 – n)		

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Answers Key

- **1.** (C)
- **2.** (A)
- **3.** (A)
- **4.** (A)
- **5.** (D)
- **6.** (C)
- **7.** (B)(D)

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