Assignment 10 - SETS

1.In the Mindworkzz club all the members participate either in the Tambola or the Fete. 320 participate in the Fete, 350 participate in the Tambola and 220 participate in both. How many members does the club have?

A.410 B.450 C .440 D. 380 **Answer: B. 450**

2. There are 20000 people living in Defence Colony, Gurgaon. Out of them 9000 subscribe to Star TV Network and 12000 to Zee TV Network. If 4000 subscribe to both, how many do not subscribe to any of the two?

A.5000 B.2000 C.3000 D.5000 Answer: C.3000

3.In the Indian athletic squad sent to the Olympics, 21 athletes were in the triathlon team; 26 were in the pentathlon team; and 29 were in the marathon team. 14 athletes can take part in triathlon and pentathlon; 12 can take part in marathon and triathlon; 15 can take part in pentathlon and marathon; and 8 can take part in all the three games. How many were in the marathon team only?

A.11 B.10 C.8 D.9 Answer: **B.10**

4.5% of the passengers who boarded Guwahati- New Delhi Rajdhani Express on 20 the February, 2002 do not like coffee, tea and ice cream and 10% like all the three. 20% like coffee and tea, 25% like ice cream and coffee and 25% like ice cream and tea. 55% like coffee, 50% like tea and 50 % like ice cream. The number of passengers who like only coffee is greater than the passengers who like only ice cream by

A.100 B.15 C.50 D.18 Answer: A.100

5.In the given Venn diagram, A denotes mangoes, B denotes bananas, C denotes apples, and the numbers in each section represent the number of persons who like those fruits. How many persons like only bananas?

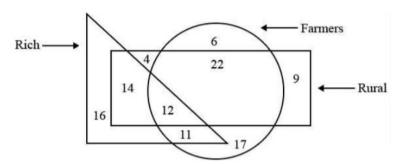
A.38 B.7 C.31 D.33 Answer: C. 31

6.In a group of 75 students,12 like only cabbage,15 like only cauliflower,21 like only carrot,12 like both carrot and cabbage,13 like only capsicum and 2 like both capsicum and 2 like both capsicum and cauliflower. What is the percentage of students that do not like cabbage?

A.16 B.32 C.24 D. 68 Answer: **D. 68**

7.In the given diagram, the circle stands for 'farmers', the rectangle stands for 'rural', and the triangle stands for 'rich', The numbers given in the different segments represent the number of persons of that category. (see the below diagram). How many rural people are either farmers or rich but NOT both?

Answer: 14 + 22 = 36



8.In a batch of 68 students, 23 students do not participate in any of the two games i.e. cricket and squash. 17 students participate in cricket only, 24 students participate in cricket and squash. How many students participate in squash only?

.28 B.4 C.21 D.20 Answer: B. 4

9.Among 160 players in a tournament, 57 did not participate in any of the three games, i.e. Cricket, Hockey and Badminton. A total of 37 players participated in only one game, 10 players participated in both Cricket and Hockey but not in Badminton, 9 players participated in both Hockey and Badminton but not in Cricket, and 13 players participated in both Cricket and Badminton but not in Hockey. How many students participated in all the three games?

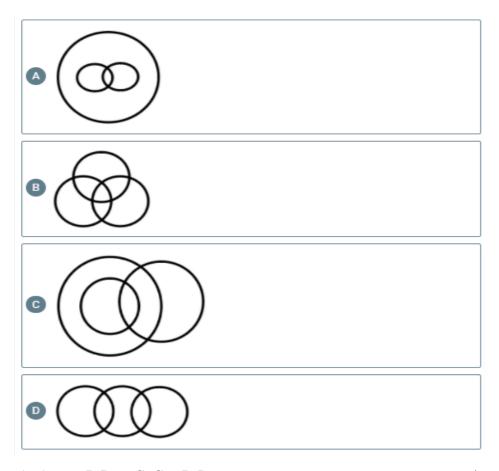
A.30 B.32 C.38 D.34

Answer: D. 34

10.In a class of 100 students, every student has passed in one or more of the three subjects, i.e., History, Economics and English. Among all the students, 24 students have passed in English only, 14 students have passed in History only, 11 students have passed in both English and Economics only, and 12 students have passed in both English and History only. A total of 50 students have passed in History. If only 5 students have passed in all three subjects, then how many students have passed in Economics only?

A.15 B.18 C.20 D.10 Answer: A. 15

11. Select the Venn diagram that best illustrates the relationship between the following classes. Graduates, Teachers, Literates



A. A B.B C. C D.D Answer: D. D

12. Find the so a. {1, -2}			•		in roster form	Answer : a. {1,-2}
and Debate. A students partic two competition	total of	22 stude all thre How m	ents particip ee competiti	ated eith ons. A to	er in Quiz only or	i.e. Quiz, Extempore in Extempore only. 4 participated in any of the only? Answer: B. 20
Country, State	e, City.		est represent	s the rela	ntionship among th	· ·
A.1 B.2	C.3	D.4				Answer: D. 4
15. Convert th	$e A = \{3,$	-3}into	set-builder	form		
a. A= {x:xb. A= {x:xc. A= {x:xd. None of	x is an int x is an int f these	teger an eger an	d x+1=1		of 19} nd x2-9=0}	
as well. But no do at least one is more than the	o one doe of the the ne number	es maths aree sub er who c	s and chemi jects and the do more that	stry, 16 de e number n one of t	lo physics and che of people who do	emistry. All the students o exactly one of the three e the maximum and
A.40, 0	B.28, 0	(C.38, 2	D.44,	0	Answer: D. 44, 0
-	Set R co	_				all odd multiples of 7 many elements are
A.202	B.243	(C.228	D.186	j	Answer: A. 202
the hockey tea	nm and 29 nd footba of member	9 are in all, and ers in th	the football 12 play foot	team. And	mong them, 14 pla cricket. Eight play	he cricket team, 26 are in ay hockey and cricket, 15 all the three games. The Answer: (a) 43
19. The set of A. A null B. A sing C. A finite D. Not a v	intelliger set leton set e set well-defir	nt stude	nts in a clas	s is		Tandiffer (a) 40
	s take at	least on			take physics and takes all three the	18 take history. If all en the number of
A.16	B.6		D.20			Answer: (a) 16