

2007 MBA - SETS TEST MODEL QUESTION PAPER

TIME : 3 HOUR

Question 1 of 25

In a survey of political preference, 78% of those asked were in favour of at least one of the proposals: I, II and III. 50% of those asked favoured proposal I, 30% favoured proposal II, and 20% favoured proposal III. If 5% favoured all the three proposals, what % of those asked favoured more than one of the three proposals?

1. 10

2. 12

3. \$17

4. 22

5. 25

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Question 2 of 25

In a town with population of 5000; 3200 people are egg-eaters, 2500 meat eaters and 1500 eat both egg and meat. How many are pure vegetarians i.e. neither meat-eaters nor egg-eaters.

1. 1000

2. 900

3. 800

4. 700

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Question 3 of 25

The shaded area in this diagram represents:

1. A C

2. (A B) – C

3. $(A - C) (B - C)$

4. (A B) – C

5. (A C) – B

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Question 4 of 25

In a survey conducted among 60 managers, it was found that 25 read Business India, 30 read Business World and 24 read Business Today; 10 read Business India and Business World, 9 read Business India and Business Today and 12 read Business World and Business Today. If 5 read all three, how many read only one publication? (Assume each one reads one of the given publications)

1. 25

2. 35

3. 32

4. 42

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Question 5 of 25

40% of the students in a college play basketball, 34% of the students play tennis and the number of students who play both the games is 234. The number of students who play neither basketball nor tennis is 52%. Determine the student population in the college?

1. 1050

2. 1000

3. 900

4. 850

5. 800

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Question 6 of 25

In a certain zoo, there are 42 animals in one sector, 34 in the second sector and 20 in the third sector. Out of this, 24 graze in sector one and also in sector two. 10 graze in sector two and sector three. 12 graze in sector one and sector three. These figures also include four animals grazing in all the three sectors. If all the animals are now transported to another zoo, find the total number of the animals?

1. 38

2. 56

3. 54

4. 52

5. 50

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Question 7 of 25

In a survey of 500 customers, the number of people who buy various grades of rice are as given below:

A grade only 90

A grade but not B grade 115

A grade and C grade 40

A grade 130

B grade and C grade 40

C grade 240

None of the three grades 120

The frequency of B only compared to that of A and C but not B is:

1. twice

2. equal

3. one and one – fourth

4. thrice

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Question 8 of 25

In a survey of 500 customers, the number of people who buy various grades of rice are as given below:

A grade only 90

A grade but not B grade 115

A grade and C grade 40

A grade 130

B grade and C grade 40

C grade 240

None of the three grades 120

How many buy only B grade?

1. 75

2. 50

3. 90

4. 25

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Question 9 of 25

In a survey of 500 customers, the number of people who buy various grades of rice are as given below:

A grade only 90

A grade but not B grade 115

A grade and C grade 40

A grade 130

B grade and C grade 40

C grade 240

None of the three grades 120

The number who buy A or B but not C is:

1. 105

2. 155

3. 65

4. None of these

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Question 10 of 25

In a survey of 500 customers, the number of people who buy various grades of rice are as given below:

A grade only 90

A grade but not B grade 115

A grade and C grade 40

A grade 130

B grade and C grade 40

C grade 240

None of the three grades 120

The frequencies of which of the following are equal?

1. A and B

2. A only and B only

3. A and C but not B and B and C but not A

4. None of these

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Question 11 of 25

There are equal no. of persons who read ET, HT or TOI. Total no. of persons are 302. 12 read HT and TOI, 9 read TOI and ET, 7 read ET and HT and 3 read all the newspapers.

The difference between the number reading HT and ET only and ET only is:

1. 82

2. 91

3. 96

4. None of these

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Question 12 of 25

In a survey of 500 customers, the number of people who buy various grades of rice are as given below:

A grade only 90

A grade but not B grade 115

A grade and C grade 40

A grade 130

B grade and C grade 40

C grade 240

None of the three grades 120

The percentage who buy all three grades amongst the consumers is:

1. equal to 4

2. equal to 3

3. less than 4

4. greater than 4

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Question 13 of 25

There are equal no. of persons who read ET, HT or TOI. Total no. of persons are 302. 12 read HT and TOI, 9 read TOI and ET, 7 read ET and HT and 3 read all the newspapers.

The no. of persons reading TOI and HT only, TOI and ET only and ET and HT only are in the ratio of :

1. 9 : 6 : 4

2. 3 : 2 : 1

3. 6 : 9 : 4

4. 7 : 8 : 6

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Question 14 of 25

There are equal no. of persons who read ET, HT or TOI. Total no. of persons are 302. 12 read HT and TOI, 9 read TOI and ET, 7 read ET and HT and 3 read all the newspapers.
What percent of people read ET and TOI but not HT?

1. 65.34%

2. 64.74%

3. 63.9%

4. None of these

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Question 15 of 25

Let A and B have 3 and 6 elements respectively. What can be the minimum number of elements in $A \cap B$?

1. 3

2. 6

3. 9

4. 18

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Question 16 of 25

There are equal no. of persons who read ET, HT or TOI. Total no. of persons are 302. 12 read HT and TOI, 9 read TOI and ET, 7 read ET and HT and 3 read all the newspapers.
How many read exactly two newspapers?

1. 29
2. 19
3. 23
4. None of these

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Question 17 of 25

If $X = \{4n - 3n - 1 \mid n \in \mathbb{N}\}$ and $Y = \{9(n - 1) \mid n \in \mathbb{N}\}$, then $X \cap Y$ is equal to:

1. X
2. Y
3. N
4. None of these

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Question 18 of 25

If $a \in \mathbb{N} = \{ax \mid x \in \mathbb{N}\}$ and $b \in \mathbb{N} \cap c \in \mathbb{N} = d\mathbb{N}$, where $b, c \in \mathbb{N}$ and b, c are co-prime to each other then:

1. $d = bb$
2. $c = bd$
3. $b = cc$
4. $d = bc$
5. Data insufficient

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Question 19 of 25

Let $N_6 = \{an \mid n \in \mathbb{N}\}$, then $N_6 \cap N_8$ is equal to

1. N_2

2. N48

3. \$N8

4. N24

5. N12

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Question 20 of 25

At meeting of 100 people, there were 23 Indian men and 29 Indian women. Of these Indian people, 4 were dentists and 24 were either men or dentists. Assuming there were no foreign dentists, find:
How many women dentists attended the meeting?

1. 1

2. 4

3. 9

4. None of these

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Question 21 of 25

In a town, 48% people are educated, 51% people are young and 60% are servicemen. 24% are educated and young, 25% are young and servicemen, 27% are educated and servicemen and 5% have all the qualities.
What is the ratio of percentage of educated or young but not servicemen, in relation to the percentage of young or servicemen but not educated?

1.

2.

3.

4.

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Question 22 of 25

At meeting of 100 people, there were 23 Indian men and 29 Indian women. Of these Indian people, 4 were dentists and 24 were either men or dentists. Assuming there were no foreign dentists, find:
How many foreigners attend the meeting?

1. 45

2. 46

3. 47

4. 48

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Question 23 of 25

In a town, 48% people are educated, 51% people are young and 60% are servicemen. 24% are educated and young, 25% are young and servicemen, 27% are educated and servicemen and 5% have all the qualities.

If the total no. of people is 500, then what will be the % change in the number of people who have two or more characteristics, if the original number of people is 300?

1. 33.33%

2. 44%

3. 66.67%

4. None of these

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Question 24 of 25

In a town, 48% people are educated, 51% people are young and 60% are servicemen. 24% are educated and young, 25% are young and servicemen, 27% are educated and servicemen and 5% have all the qualities.

How many people are there, who don't have any of these 3 qualities. (in percentage terms)?

1. 12

2. 7

3. 9

4. 10

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Question 25 of 25

In a town, 48% people are educated, 51% people are young and 60% are servicemen. 24% are educated and young,

25% are young and servicemen, 27% are educated and servicemen and 5% have all the qualities.
If total no. of people in this town is 300 then what is the ratio between those who have exactly two characteristics and those who have only one characteristic?

- 1.
- 2.
- 3.
4. None of these

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