



# JIPMAT 2022

Previous Year Paper  
With Solutions

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# JIPMAT Exam July 2022

Topic:- Set1\_Quant Apt

1) Which of the following is the value of  $m$  for which the polynomial  $x^4 + 10x^3 + 25x^2 + 15x + m$  is exactly divisible by  $+7$  ?

[Question ID = 1][Question Description = SEC1\_1]

1. -91

[Option ID = 1]

2. -101

[Option ID = 2]

3. 15

[Option ID = 3]

4. 115

[Option ID = 4]

2) The population of a village is 5000. If in a year, the number of males were to increase by 5% and that of females by 3% annually, the population would grow to 5202 at the end of the year. If  $M$  is the number of males and  $F$  is the number of females in the village, then  $(M, F) =$

[Question ID = 2][Question Description = SEC1\_2]

1. (3000, 2000) [Option ID = 5]

2. (2800, 2200) [Option ID = 6]

3. (2600, 2200) [Option ID = 7]

4. (2700, 2300) [Option ID = 8]

3) If  $\sin(\alpha)$  and  $\cos(\alpha)$  are the roots of the equation  $ax^2 + bx + c = 0$ , then  $b^2$  is

[Question ID = 3][Question Description = SEC1\_3]

1.  $c^2 + 2ac$

[Option ID = 9]

2.  $a^2 + ac$

[Option ID = 10]

3.  $a^2 + 2ac$

[Option ID = 11]

4.  $c^2 + ac$

[Option ID = 12]

4) Match List I with List II

List I(Quadratic Equation)	List II(Roots)
A. $6x^2 + x - 12 = 0$	I. $(-6, 4)$
B. $8x^2 + 16x - 10 = 202$	II. $(9, 36)$
C. $x^2 + 45x + 324 = 0$	III. $(3, -\frac{1}{2})$
D. $2x^2 - 5x - 3 = 0$	IV. $(-\frac{3}{2}, \frac{4}{3})$

Choose the correct answer from the options given below:

[Question ID = 4][Question Description = SEC1\_4]

1. A-I, B-III, C-IV, D-II

[Option ID = 13]

2. A-IV, B-I, C-II, D-III

[Option ID = 14]

3. A-II, B-IV, C-III, D-I

[Option ID = 15]

4. A-III, B-II, C-I, D-IV

[Option ID = 16]

- 5) The sum of n-terms of sequence  $\frac{1}{1 \times 2}, \frac{1}{2 \times 3}, \frac{1}{3 \times 4}, \dots$  is \_\_\_\_\_ is

[Question ID = 5][Question Description = SEC1\_5]

1.  $\frac{1}{n+1}$

[Option ID = 17]

2.  $\frac{1}{n}$

[Option ID = 18]

3.  $\frac{n+1}{n}$

[Option ID = 19]

4.  $\frac{n}{n+1}$

[Option ID = 20]

- 6) Two poles of height 6 m and 11 m stand vertically upright on a plane ground. If the distance between their foot is 12 m, then distance between their tops is

[Question ID = 6][Question Description = SEC1\_6]

1. 12 m

[Option ID = 21]

2. 14 m

[Option ID = 22]

3. 13 m

[Option ID = 23]

4. 11 m

[Option ID = 24]

- 7) Given below are two statements:

**Statement I :** If  $\sin(\theta) = \frac{5}{13}$ , then the value of  $\tan(\theta) = \frac{5}{12}$

**Statement II :** If  $\cot(\theta) = \frac{12}{5}$ , then the value of  $\sin(\theta) = \frac{5}{12}$

In the light of the above statements, choose the **correct answer** from the options given below :

[Question ID = 7][Question Description = SEC1\_7]

1. Both Statement I and Statement II are true

[Option ID = 25]

2. Both Statement I and Statement II are false

[Option ID = 26]

3. Statement I is true but Statement II is false

[Option ID = 27]

4. Statement I is false but Statement II is true

[Option ID = 28]

- 8) The area of a circular play ground is  $22176 \text{ cm}^2$ . What is the cost of fencing this ground at the rate of ₹ 50 per metre?

[Question ID = 8][Question Description = SEC1\_8]

1. ₹ 264

[Option ID = 29]

2. ₹ 400

[Option ID = 30]

3. ₹ 312

[Option ID = 31]

4. ₹ 244

[Option ID = 32]

9) Match List I with List II

List I	List II
A. Mean of first five prime numbers is	I. 12
B. Mean of all factors of 24 is	II. 7.5
C. Mean of first six multiples of 4 is	III. 5.6
D. If the mean of $x - 5y$ , $x - 3y$ , $x - y$ , $x + y$ , $x + 3y$ and $x + 5y$ is 12, then $x$ is	IV. 14

Choose the correct answer from the options given below:

[Question ID = 9][Question Description = SEC1\_9]

1. A-II, B-I, C-III, D-IV

[Option ID = 33]

2. A-III, B-II, C-IV, D-I

[Option ID = 34]

3. A-I, B-IV, C-II, D-III

[Option ID = 35]

4. A-IV, B-III, C-I, D-II

[Option ID = 36]

10) Given below are two statements based on the following:

If A and B are independent events such that  $P(A) = p$ ,  $P(B) = 2p$  and  $P(\text{exactly one of A, B}) = \frac{5}{9}$

**Statement I :**  $p = \frac{1}{3}$

**Statement II :**  $p = \frac{5}{12}$

In the light of the above statements, choose the correct answer from the options given below

[Question ID = 10][Question Description = SEC1\_10]

1. Both Statement I and Statement II are true

[Option ID = 37]

2. Both Statement I and Statement II are false

[Option ID = 38]

3. Statement I is true but Statement II is false

[Option ID = 39]

4. Statement I is false but Statement II is true

[Option ID = 40]

11) Given below are two statements:

**Statement I :** The sum of exponents of prime factors in the prime factorization of 392 is 5.

**Statement II :** The decimal representation  $\frac{13}{2^3 \times 5}$  will terminate after 2 decimal places.

In the light of the above statements, choose the correct answer from the options given below :

[Question ID = 11][Question Description = SEC1\_11]

1. Both Statement I and Statement II are true

[Option ID = 41]

2. Both Statement I and Statement II are false

[Option ID = 42]

3. Statement I is true but Statement II is false

[Option ID = 43]

4. Statement I is false but Statement II is true

[Option ID = 44]

12) The father's age is six times his son's age. Four years hence, the age of the father will be four times his son's age. The present age (in years) of the son and the father are, respectively

[Question ID = 12][Question Description = SEC1\_12]

1. 6 and 36

[Option ID = 45]

2. 4 and 24

[Option ID = 46]

3. 5 and 30

[Option ID = 47]

4. 7 and 42

[Option ID = 48]

- 13) Given below are two statements:

**Statement I:** In  $\triangle ABC$ ,  $AB = 6\sqrt{3}$  cm,  $AC = 12$  cm and  $BC = 6$  cm, then angle B =  $90^\circ$ .

**Statement II:**  $\triangle ABC$  is an isosceles triangle with  $AC = BC$ . If  $AB^2 = 2AC^2$ , then angle C =  $90^\circ$ . [Question ID = 13][Question Description = SEC1\_13]

In the light of the above statements, choose the correct answer from the options given below

Description = SEC1\_13

1. Both Statement I and Statement II are true

[Option ID = 49]

2. Both Statement I and Statement II are false

[Option ID = 50]

3. Statement I is true but Statement II is false

[Option ID = 51]

4. Statement I is false but Statement II is true

[Option ID = 52]

- 14) Which of the following trigonometric identities are true?

$$\sin^2(41^\circ) + \sin^2(49^\circ) = 1$$

$$\sin^2(60^\circ) - 2 \tan(45^\circ) - \cos^2(30^\circ) = -1$$

$$\sin^2(\theta) + \frac{1}{1+\tan^2(\theta)} = 1$$

Choose the correct answer from the options given below:

[Question ID = 14][Question Description = SEC1\_14]

1. A and B only

[Option ID = 53]

2. A and C only

[Option ID = 54]

3. B and C only

[Option ID = 55]

4. A, B and C

[Option ID = 56]

- 15) The equation of the circle which passes through the point (4, 5) and its centre at (2, 2) is

[Question ID = 15][Question Description = SEC1\_15]

1.  $(x-2)^2 + (y-2)^2 = 13$

[Option ID = 57]

2.  $(x - 2^2 + y - 2^2) = 13$

[Option ID = 58]

3.  $x^2 + y^2 = 13$

[Option ID = 59]

4.  $(x - 4)^2 + (y - 5)^2 = 13$

[Option ID = 60]

16) If the mean of a, b and c is M;  $ab + bc + ca = 0$ ; and the mean of  $a^2$ ,  $b^2$  and  $c^2$  is  $KM^2$ , then K is equal to

[Question ID = 16][Question Description = SEC1\_16]

1. 3

[Option ID = 61]

2. 9

[Option ID = 62]

3. 6

[Option ID = 63]

4. 4

[Option ID = 64]

17) Given below are two statements based on the following:

A motor boat can travel 30 km upstream and 28 km downstream in 7 hours. It can travel 21 km upstream and return in 5 hours.

Statement I : Speed of the boat in still water is 12 km per hour.

Statement II : Speed of the stream is 4 km per hour.

In the light of the above statements, choose the correct answer from the options given below :

[Question ID = 17][Question Description = SEC1\_17]

1. Both Statement I and Statement II are true

[Option ID = 65]

2. Both Statement I and Statement II are false

[Option ID = 66]

3. Statement I is true but Statement II is false

[Option ID = 67]

4. Statement I is false but Statement II is true

[Option ID = 68]

18) If LCM of two numbers is 12 times HCF and the sum of LCM and HCF is 403, if one number is 93, find the other number

[Question ID = 18][Question Description = SEC1\_18]

1. 124

[Option ID = 69]

2. 114

[Option ID = 70]

3. 128

[Option ID = 71]

4. 96

[Option ID = 72]

19) Two persons A and B starts from same point to travel from Chandigarh to Ambala. Distance between Chandigarh and Ambala is 60 km. Speed of A is 4 km/hr slower than B. B when reaches Ambala, starts back via same route without taking any rest and meets A who was still 12 km away from Ambala. Find speed of A.

[Question ID = 19][Question Description = SEC1\_19]

1. 4 km/hr

[Option ID = 73]

2. 8 km/hr

[Option ID = 74]

3. 12 km/hr

[Option ID = 75]

4. 14 km/hr

[Option ID = 76]

20) The value of a flat worth 5,00,000 is depreciating at the rate of 10% p.a. In how many years, will the value be reduced to 364500.

[Question ID = 20][Question Description = SEC1\_20]

1. 2 years

[Option ID = 77]

2. 3 years

[Option ID = 78]

3. 3 years six months

[Option ID = 79]

4. 4 years

[Option ID = 80]

21) Three years ago, ratio of ages of Amisha and Namisha was 8:9. 3 years from now the ratio will become 11:12 . What is the present age of Amisha.

[Question ID = 21][Question Description = SEC1\_21]

1. 2 years

[Option ID = 81]

2. 16 years

[Option ID = 82]

3. 19 years

[Option ID = 83]

4. 21 years

[Option ID = 84]

22) Floor of a room is 15 m 17 cm long and 9 m 2 cm broad. What is the least number of square tiles required to pave the floor?

[Question ID = 22][Question Description = SEC1\_22]

1. 768

[Option ID = 85]

2. 906

[Option ID = 86]

3. 814

[Option ID = 87]

4. 652

[Option ID = 88]

23) If  $a + b = 2a - 3b + ab$ , then  $3 \times 5 + 5 \times 3$  is equal to

[Question ID = 23][Question Description = SEC1\_23]

1. 26

[Option ID = 89]

2. 24

[Option ID = 90]

3. 22

[Option ID = 91]

4. 20

[Option ID = 92]

24) A two digit number is 7 times the sum of its two digits. The number that is formed by reversing its digits is 18 less than original number. What is the number?

[Question ID = 24][Question Description = SEC1\_24]

1. 24

[Option ID = 93]

2. 42

[Option ID = 94]

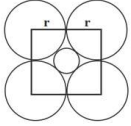
3. 36

[Option ID = 95]

4. 63

[Option ID = 96]

25)



If radius of each of four outer circles is  $r$ , then radius of innermost circle is

[Question ID = 25][Question Description = SEC1\_25]

1.  $\frac{\sqrt{2}}{\sqrt{2}+1}r$

[Option ID = 97]

2.  $\frac{1}{\sqrt{2}}r$

[Option ID = 98]

3.  $(\sqrt{2}-1)r$

[Option ID = 99]

4.  $\sqrt{2}r$

[Option ID = 100]

26) How many litres of water should be added to a 30 litres mixture of milk and water containing milk and water in the ratio 7:3 such that the resultant mixture has 40% water in it

[Question ID = 26][Question Description = SEC1\_26]

1. 5

[Option ID = 101]

2. 2

[Option ID = 102]

3. 3

[Option ID = 103]

4. 8

[Option ID = 104]

27) If  $\frac{a}{b+c} = \frac{b}{c+a} = \frac{c}{a+b} = k$  then value of  $k$  is

[Question ID = 27][Question Description = SEC1\_27]

1.  $\pm \frac{1}{2}$

[Option ID = 105]

2.  $\frac{1}{2}$  or  $-1$

[Option ID = 106]

3.  $-1$

[Option ID = 107]

4.  $\frac{1}{2}$

[Option ID = 108]

28) The value of  $\frac{325 \times 325 \times 325 + 175 \times 175 \times 175}{325 \times 325 - 325 \times 175 + 175 \times 175}$  is



[Question ID = 28][Question Description = SEC1\_28]

1. 143755

[Option ID = 109]

2. 1125

[Option ID = 110]

3. 9575

[Option ID = 111]

4. 500

[Option ID = 112]

29) If A earns  $33\frac{1}{3}\%$  more than B, then percentage B earns less than A will be

[Question ID = 29][Question Description = SEC1\_29]

1.  $66\frac{2}{3}\%$

[Option ID = 113]

2. 25%

[Option ID = 114]

3. 65%

[Option ID = 115]

4.  $33\frac{1}{3}\%$

[Option ID = 116]

30)  $\frac{\sqrt{5} + \sqrt{3}}{\sqrt{8} - 2\sqrt{15}} + \frac{\sqrt{11 + 2\sqrt{30}}}{\sqrt{6} - \sqrt{5}}$

[Question ID = 30][Question Description = SEC1\_30]

1.  $25 + \sqrt{10} + 2\sqrt{30}$

[Option ID = 117]

2.  $40 + \sqrt{10} + 2\sqrt{30}$

[Option ID = 118]

3.  $30 + \sqrt{20} + 2\sqrt{30}$

[Option ID = 119]

4.  $15 + \sqrt{15} + 2\sqrt{30}$

[Option ID = 120]

31) If 'A' can do  $\frac{1}{4}$  of a work in 3 days and 'B' can do  $\frac{1}{6}$  of same work in 4 days, how much will 'A' get if both work together and are paid Rs. 180 in all.

[Question ID = 31][Question Description = SEC1\_31]

1. 36

[Option ID = 121]

2. 60

[Option ID = 122]

3. 108

[Option ID = 123]

4. 120

[Option ID = 124]

32) P, Q and R invested Rs. 25,000, Rs. 50,000 and Rs. 25,000 respectively to start a business. At the end of two years, they earned a profit of Rs. 48,000. What will be Q's share?

[Question ID = 32][Question Description = SEC1\_32]

1. 24,000

[Option ID = 125]

2. 36,000

[Option ID = 126]

3. 12,000

[Option ID = 127]

4. 20,000

[Option ID = 128]

33) A sum becomes double in 10 years, then annual rate of simple interest is

[Question ID = 33][Question Description = SEC1\_33]

1. 8%

[Option ID = 129]

2. 5%

[Option ID = 130]

3. 10%

[Option ID = 131]

4. 20%

[Option ID = 132]

Topic:- Set1\_DI and LR\_A

1) Following expenditure was incurred by a company under different heads :

Item of Expenditure

Year	Salary	Cost of components	Power	Interest	Taxes
2000	288	296	26.4	12.2	32.0
2001	299	332	28.4	14.2	34.6
2002	298	382	26.2	14.8	38.8
2003	305	410	28.6	15.2	42.4
2004	316	428	32.0	14.3	42.6

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Total expenditure in 2000 was what percentage of total expenditure in 2003 ?

[Question ID = 34][Question Description = SEC1\_34]

1. 60.03%

[Option ID = 133]

2. 81.70%

[Option ID = 134]

3. 76.56%

[Option ID = 135]

4. 122.39%

[Option ID = 136]

2) Following expenditure was incurred by a company under different heads :

Item of Expenditure

Year	Salary	Cost of components	Power	Interest	Taxes
2000	288	296	26.4	12.2	32.0
2001	299	332	28.4	14.2	34.6
2002	298	382	26.2	14.8	38.8
2003	305	410	28.6	15.2	42.4

Year	Salary	Cost of components	Power	Interest	Taxes
2004	316	428	32.0	14.3	42.6

What is the approximate ratio between total tax paid and cost of components over all these years ?

[Question ID = 35][Question Description = SEC1\_35]

1. 11 : 117

[Option ID = 137]

2. 3 : 70

[Option ID = 138]

3. 14 : 138

[Option ID = 139]

4. 12 : 141

[Option ID = 140]

3) Following expenditure was incurred by a company under different heads :

Item of Expenditure

Year	Salary	Cost of components	Power	Interest	Taxes
2000	288	296	26.4	12.2	32.0
2001	299	332	28.4	14.2	34.6
2002	298	382	26.2	14.8	38.8
2003	305	410	28.6	15.2	42.4
2004	316	428	32.0	14.3	42.6

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Which year saw the maximum increase in salary over the previous year ?

[Question ID = 36][Question Description = SEC1\_36]

1. 2001

[Option ID = 141]

2. 2002

[Option ID = 142]

3. 2003

[Option ID = 143]

4. 2004

[Option ID = 144]

Topic:- Set1\_DI and LR\_B

1) A teacher has partial data of the student result:

Sex	Grade			Total
	A	B	C	
Girls				40
Boys	5			
Total		30		

The other information available is-

1. Half the students have grade A or B
2. 50% of the students are girls
3.  $\frac{1}{4}$  of boys have grade C

The number of girls, boys and total number of students is -

[Question ID = 37][Question Description = SEC1\_37]

1. Girls-40, Boys-45, Total-85

[Option ID = 145]

2. Girls-40, Boys-40, Total-80

[Option ID = 146]

3. Girls-40, Boys-50, Total-90

[Option ID = 147]

4. Girls-40, Boys-35, Total-75

[Option ID = 148]

2) A teacher has partial data of the student result:

Sex	Grade			Total
	A	B	C	
Girls				40
Boys	5			
Total		30		

The other information available is-

1. Half the students have grade A or B
2. 50% of the students are girls
3.  $\frac{1}{4}$  of boys have grade C

Half the students have grade A or B. The number of girls of Grade A and total (girls and boys) having grade A are-

[Question ID = 38][Question Description = SEC1\_38]

1. 5, 10

[Option ID = 149]

2. 5, 5

[Option ID = 150]

3. 10, 5

[Option ID = 151]

4. 10, 10

[Option ID = 152]

3) A teacher has partial data of the student result:

Sex	Grade			Total
	A	B	C	
Girls				40
Boys	5			
Total		30		

The other information available is-

1. Half the students have grade A or B
2. 50% of the students are girls
3.  $\frac{1}{4}$  of boys have grade C

Number of boys who have grade B and Number of boys who have grade C are-

[Question ID = 39][Question Description = SEC1\_39]

1. 25, 10

[Option ID = 153]

2. 10, 25

[Option ID = 154]

3. 10, 30

[Option ID = 155]

4. 30, 10

[Option ID = 156]

4) A teacher has partial data of the student result:

Sex	Grade			Total
	A	B	C	
Girls				40
Boys	5			
Total		30		

The other information available is-

1. Half the students have grade A or B
2. 50% of the students are girls
3.  $\frac{1}{4}$  of boys have grade C

The number of girls who have grade B and number of girls who have grade C are -

[Question ID = 40][Question Description = SEC1\_40]

1. 5, 30

[Option ID = 157]

2. 30, 5

[Option ID = 158]

3. 10, 30

[Option ID = 159]

4. 30, 10

[Option ID = 160]

Topic:- Set1\_DI and LR\_C

1) Read the following information:

A and C are good in History and Biology

A is also good in Maths

B and D are good in Physics

A is also good in Chemistry

C and D are good in Chemistry

Who is /are good in four of these five subjects ?

[Question ID = 41][Question Description = SEC1\_41]

1. A and C

[Option ID = 161]

2. C

[Option ID = 162]

3. A

[Option ID = 163]

4. D

[Option ID = 164]

2) There is certain relationship between two given terms on one side of ( : : ) and one term is given on the other side of ( : : ). While another term is to be found from given alternates having the same relation with this term as the terms of given pairs

LCQJ : METN : : ABDF : ?

[Question ID = 42][Question Description = SEC1\_42]

1. BCEG

[Option ID = 165]

2. CEFI

[Option ID = 166]

3. DEGI

[Option ID = 167]

4. BDGJ

[Option ID = 168]

3) Sheela is wife of Arun. Deepak is brother of Sheela. Geeta and Mita are children of Sunita, who is wife of Deepak. How is Arun related to Mita ?

[Question ID = 43][Question Description = SEC1\_43]

1. Grandfather

[Option ID = 169]

2. Mother

[Option ID = 170]

3. Uncle

[Option ID = 171]

4. Father in law

[Option ID = 172]

4) Various terms of an alphabet series are given with one or more terms missing as shown by (?) choose the missing term out of the given

AGDLX, GDLXA, DLXAG, ? , XAGDL, AGDLX

[Question ID = 44][Question Description = SEC1\_44]

1. LXAGD

[Option ID = 173]

2. XAGLD

[Option ID = 174]

3. DXAGL

[Option ID = 175]

4. GLXAD

[Option ID = 176]

5) Three statements are given. Based on the three statements, four conclusions are given.

Consider the three statements as True and decide which of the conclusions logically follow from the statements :

Statements : All Sparrows are birds  
All birds are mountains.  
All mountains are skies.

Conclusions : I) All Sparrows are skies.  
II) All Skies are birds.  
III) All mountains are sparrows  
IV) All birds are skies

[Question ID = 45][Question Description = SEC1\_45]

1. Only I and III follow

[Option ID = 177]

2. Only II and III follow

[Option ID = 178]

3. Only I and IV follow

[Option ID = 179]

4. Only II and IV follow

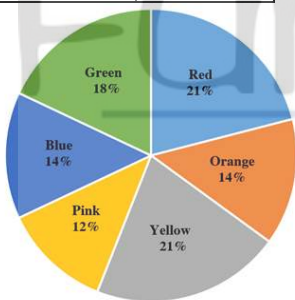
[Option ID = 180]

Topic:- Set1\_DI and LR\_D

1) In a box, there are several balls. The pie -chart shows the percentage -wise distribution of 5 different colours of balls; and total number of balls = 1000. Also, the ratio of the light and dark shades of the six colors of balls is given :

Color	Light : dark
Red	3 : 4
Blue	5 : 3
Green	1 : 3
Pink	1 : 7
Yellow	9 : 5
Orange	7 : 9

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Based on the above data.

How many dark red balls are there in the box ?

[Question ID = 46][Question Description = SEC1\_46]

1. 110

[Option ID = 181]

2. 120

[Option ID = 182]

3. 130

[Option ID = 183]

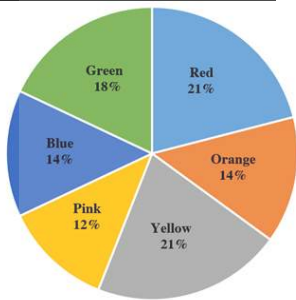
4. 140

[Option ID = 184]

2) In a box, there are several balls. The pie -chart shows the percentage -wise distribution of 5 different colours of balls; and total number of balls = 1000. Also, the ratio of the light and dark shades of the six colors of balls is given :

Color	Light : dark
Red	3 : 4
Blue	5 : 3

Green	1 : 3
Pink	1 : 7
Yellow	9 : 5
Orange	7 : 9



Based on the above data.

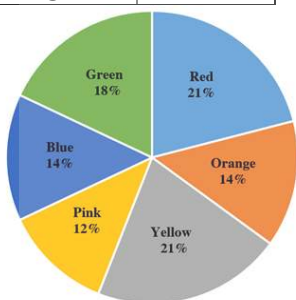
What is the total percentage of orange, yellow and pink balls in the box ?

[Question ID = 47][Question Description = SEC1\_47]

- 46  
[Option ID = 185]
- 47  
[Option ID = 186]
- 48  
[Option ID = 187]
- 49  
[Option ID = 188]

3) In a box, there are several balls. The pie -chart shows the percentage -wise distribution of 5 different colours of balls; and total number of balls = 1000. Also, the ratio of the light and dark shades of the six colors of balls is given :

Color	Light : dark
Red	3 : 4
Blue	5 : 3
Green	1 : 3
Pink	1 : 7
Yellow	9 : 5
Orange	7 : 9



Based on the above data.

What is the difference between number of light red balls and number of dark yellow balls ?

[Question ID = 48][Question Description = SEC1\_48]

- 15  
[Option ID = 189]
- 12  
[Option ID = 190]
- 17  
[Option ID = 191]

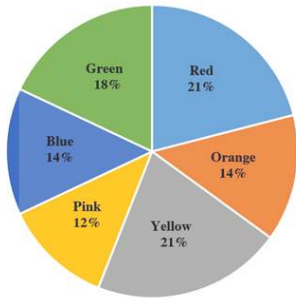


4. 14

[Option ID = 192]

4) In a box, there are several balls. The pie -chart shows the percentage -wise distribution of 5 different colours of balls; and total number of balls = 1000. Also, the ratio of the light and dark shades of the six colors of balls is given :

Color	Light : dark
Red	3 : 4
Blue	5 : 3
Green	1 : 3
Pink	1 : 7
Yellow	9 : 5
Orange	7 : 9



Based on the above data.

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What is the total number of green balls ?

[Question ID = 49][Question Description = SEC1\_49]

1. 170

[Option ID = 193]

2. 180

[Option ID = 194]

3. 185

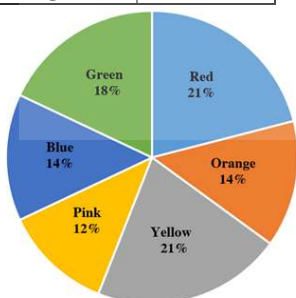
[Option ID = 195]

4. 190

[Option ID = 196]

5) In a box, there are several balls. The pie -chart shows the percentage -wise distribution of 5 different colours of balls; and total number of balls = 1000. Also, the ratio of the light and dark shades of the six colors of balls is given :

Color	Light : dark
Red	3 : 4
Blue	5 : 3
Green	1 : 3
Pink	1 : 7
Yellow	9 : 5
Orange	7 : 9



Based on the above data.

What is the ratio of dark pink balls to the dark green balls ?

[Question ID = 50][Question Description = SEC1\_50]

1. 6 : 9  
[Option ID = 197]
2. 7 : 8  
[Option ID = 198]
3. 7 : 9  
[Option ID = 199]
4. 6 : 8  
[Option ID = 200]

Topic:- Set1\_DI and LR\_E

1) Complete the series:  
CEFH, IKLN, \_\_\_\_\_, UWXZ

[Question ID = 51][Question Description = SEC1\_51]

1. OPQR  
[Option ID = 201]
2. PRSU  
[Option ID = 202]
3. PQST  
[Option ID = 203]
4. OQRT  
[Option ID = 204]

2) Four friends Jaspreet, Rohit, Rihanna and Blessy like different sports. All of them are the active members of their clubs. One person can become a member of one club only. There are three clubs- Dance, Theatre and Eco club in the school. Jaspreet who likes swimming is not a member of dance club. Rihanna is a member of dance club but does not like tennis. Rohit likes badminton but is not a member of theatre or dance club. Blessy is a member of Eco club and does not like swimming and badminton.

Who likes badminton and is a member of Eco club ?

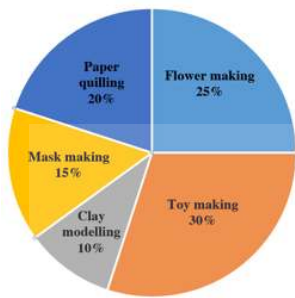
[Question ID = 52][Question Description = SEC1\_52]

1. Jaspreet  
[Option ID = 205]
2. Rohit  
[Option ID = 206]
3. Rihanna  
[Option ID = 207]
4. Blessy  
[Option ID = 208]

Topic:- Set1\_DI and LR\_F

1) Direction  
Study the following pie-chart and answer the following questions :

Percentage-wise participation of students in various activities  
Total number of students = 40



How many students did not participate in toy-making activity?

[Question ID = 53][Question Description = SEC1\_53]

1. 16  
[Option ID = 209]
2. 12  
[Option ID = 829]
3. 10  
[Option ID = 830]
4. 20  
[Option ID = 831]

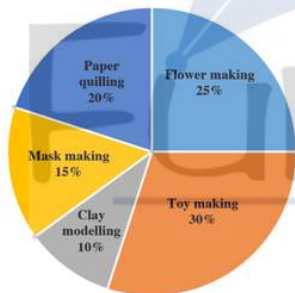
2) Direction

Study the following pie-chart and answer the following questions :

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Percentage-wise participation of students in various activities

Total number of students = 40



How many students participated in flower-making activity?

[Question ID = 54][Question Description = SEC1\_54]

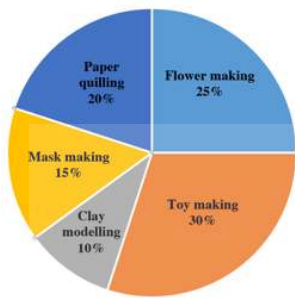
1. 12  
[Option ID = 210]
2. 10  
[Option ID = 826]
3. 16  
[Option ID = 827]
4. 20  
[Option ID = 828]

3) Direction

Study the following pie-chart and answer the following questions :

Percentage-wise participation of students in various activities

Total number of students = 40



How many students participated in mask-making and paper-quilling activity?



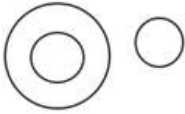
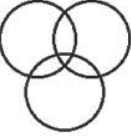
[Question ID = 55][Question Description = SEC1\_55]

1. 14  
[Option ID = 211]
2. 12  
[Option ID = 823]
3. 16  
[Option ID = 824]
4. 10  
[Option ID = 825]

Topic:- Set1\_DI and LR\_G

1) Which of the following diagrams indicate the best relation among deer, lion and animals?

[Question ID = 56][Question Description = SEC1\_56]

1.   
[Option ID = 212]
2.   
[Option ID = 213]
3.   
[Option ID = 214]
4.   
[Option ID = 215]

2) Find the missing term in the series given below:

6, 8, 4, 6, 3, 5, ?,  $\frac{9}{12}$ , ...

[Question ID = 57][Question Description = SEC1\_57]

1. 8  
[Option ID = 216]
2. 3  
[Option ID = 217]

3.  $\frac{5}{2}$

[Option ID = 218]

4.  $\frac{9}{4}$

[Option ID = 219]

3) Based on the relationship between first two words on the left side of :: as given below, choose the correct word in place of ? to express similar relationship

Botany : Plants :: Entomology : ?

[Question ID = 58][Question Description = SEC1\_58]

1. Animals

[Option ID = 220]

2. Germs

[Option ID = 221]

3. Birds

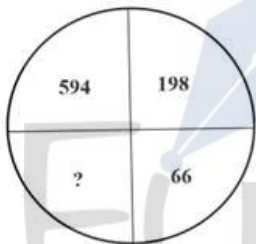
[Option ID = 222]

4. Insects

[Option ID = 223]

4) The numbers in the figure given below have been generated using some logic / pattern. Using that logic/pattern, find out the number that can be inserted in place of ?

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[Question ID = 59][Question Description = SEC1\_59]

1. 33

[Option ID = 224]

2. 22

[Option ID = 225]

3. 18

[Option ID = 226]

4. 30

[Option ID = 227]

5) Find the wrong term in the series given below :

1, 9, 33, 105, 158, ....

[Question ID = 60][Question Description = SEC1\_60]

1. 158

[Option ID = 228]

2. 105

[Option ID = 229]

3. 33

[Option ID = 230]

4. 9

[Option ID = 231]

6) Pointing towards a person in a photograph Rani said, "He is the only son of the father of my sister's brother". How the person in the photograph related to Rani?

[Question ID = 61][Question Description = SEC1\_61]

1. Father

[Option ID = 232]

2. Sister

[Option ID = 233]

3. Cousin

[Option ID = 234]

4. Brother

[Option ID = 235]

7) A man walks 3 kms towards east from his house. He then turns south and walks 4km. Again he turns west and walks 6km. How far is he from the starting point i.e. his house?

[Question ID = 62][Question Description = SEC1\_62]

1. 7 km

[Option ID = 236]

2. 4 km

[Option ID = 237]

3. 5 km

[Option ID = 238]

4. 3 km

[Option ID = 239]

8) Consider an alphabetic series shown below as:

A, C, F, J

The next two terms of the series are?

[Question ID = 63][Question Description = SEC1\_63]

1. L and P

[Option ID = 240]

2. O and U

[Option ID = 241]

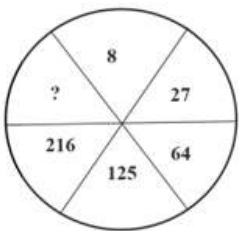
3. M and R

[Option ID = 242]

4. S and U

[Option ID = 243]

9) The numbers in the figure below have been generated using certain logic/pattern. Using that logic/pattern, find out the number that can be inserted in place of ?



[Question ID = 64][Question Description = SEC1\_64]

1. 343

[Option ID = 244]

2. 128

[Option ID = 245]

3. 432

[Option ID = 246]

4. 341

[Option ID = 247]

10) If  $623 = 49$

$516 = 62$  and

$438 = 39$

Then what is 583

[Question ID = 65][Question Description = SEC1\_65]

1. 36  
[Option ID = 248]
2. 98  
[Option ID = 249]
3. 65  
[Option ID = 250]
4. 69  
[Option ID = 251]

11) If '+' means '÷', '÷' means '-', - Means 'x', 'x' means '+', then find the value of the following :  
 $5 - (13 - 4 + 2 \div 6 \times 15 \div 5)$

[Question ID = 66][Question Description = SEC1\_66]

1. 120  
[Option ID = 252]
2. 10  
[Option ID = 253]
3. 28  
[Option ID = 254]
4. 150  
[Option ID = 255]

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Topic:- Set1\_VA and RC\_A

1) What figure(s) of speech are used in the given sentence?  
My beloved is like a red red rose

[Question ID = 67][Question Description = SEC1\_67]

1. Simile and Metaphor  
[Option ID = 256]
2. Simile and alliteration  
[Option ID = 257]
3. Metaphor and hyperbole  
[Option ID = 258]
4. Metaphor and Imagery  
[Option ID = 259]

2) Fill in the blank with a suitable preposition.  
He broke \_\_\_\_\_ in the middle of his speech

[Question ID = 68][Question Description = SEC1\_68]

1. of  
[Option ID = 260]
2. apart  
[Option ID = 261]
3. down  
[Option ID = 262]
4. for  
[Option ID = 263]

3) Pick out the correctly spelt word :

[Question ID = 69][Question Description = SEC1\_69]

1. gratus  
[Option ID = 264]
2. occasional

[Option ID = 265]

3. occasional

[Option ID = 266]

4. occasionally

[Option ID = 267]

4) Fill in the blank with the suitable form of verb

No sooner did the chairman \_\_\_\_\_ than the directors put up their demand.

[Question ID = 70][Question Description = SEC1\_70]

1. had arrived

[Option ID = 268]

2. arrived

[Option ID = 269]

3. arrive

[Option ID = 270]

4. will arrive

[Option ID = 271]

5) Fill in the blank with a suitable word.

Brevity is the soul \_\_\_\_\_ wit.

[Question ID = 71][Question Description = SEC1\_71]

1. with

[Option ID = 272]

2. for

[Option ID = 273]

3. of

[Option ID = 274]

4. off

[Option ID = 275]

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6) Fill in the blank with the most appropriate word.

When people are \_\_\_\_\_, as long as they hold fast to their language, it is as if they have the key to their prison.

[Question ID = 72][Question Description = SEC1\_72]

1. enslave

[Option ID = 276]

2. unslaved

[Option ID = 277]

3. enslaved

[Option ID = 278]

4. prisoners

[Option ID = 279]

7) Which of the following sentences is correct?

[Question ID = 73][Question Description = SEC1\_73]

1. The coach ordered the player to not leave the camp

[Option ID = 280]

2. The coach ordered the player for not leave the camp

[Option ID = 281]

3. The coach ordered the player not to leave the camp

[Option ID = 282]

4. The coach order the player not to leave the camp

[Option ID = 283]



8) This question has a sentence with two blanks followed by four pair of words as choices from the choices, select the pair of words that can best complete the given sentence.

We are truly \_\_\_\_\_ to the many hands and hearts that made this book \_\_\_\_\_.

[Question ID = 74][Question Description = SEC1\_74]

1. obliged .... plausible  
[Option ID = 284]
2. honoured .... feasible  
[Option ID = 285]
3. grateful.... possible  
[Option ID = 286]
4. thankful .... flexible  
[Option ID = 287]

9) Pick out the correct sentence in passive voice of the following sentence:

Some boys were helping the wounded man.

[Question ID = 75][Question Description = SEC1\_75]

1. The wounded man was helping some boys  
[Option ID = 288]
2. The wounded man was being helped by some boys  
[Option ID = 289]
3. The wounded man is helped by some boys  
[Option ID = 290]
4. The wounded man was helped by some boys  
[Option ID = 291]

10) Find out an appropriate synonym for the word Ebullient:

[Question ID = 76][Question Description = SEC1\_76]

1. Athletic  
[Option ID = 292]
2. Energetic  
[Option ID = 293]
3. Indolent  
[Option ID = 294]
4. Lethargic  
[Option ID = 295]

11) Pick out the part of sentence which has an error. If there is no error mark '4'.

A white rhinoceros is close to extinction

A                      B                      C

[Question ID = 77][Question Description = SEC1\_77]

1. A  
[Option ID = 296]
2. B  
[Option ID = 297]
3. C  
[Option ID = 298]
4. No error  
[Option ID = 299]

12) Each question has a sentence with two blanks followed by four pairs of words as choices. From the choices, select the pair of words that can best complete the given sentence.

The doctor \_\_\_\_\_ special course of antibiotics on the patient to \_\_\_\_\_ the disease.

[Question ID = 78][Question Description = SEC1\_78]

1. used .... relieve

[Option ID = 300]

2. gave .... fake out

[Option ID = 301]

3. prescribed .... prove

[Option ID = 302]

4. administered.... combat

[Option ID = 303]

13) Pick out the correct sentence in indirect speech of the following sentence :

He said to me, "What are you doing?"

[Question ID = 79][Question Description = SEC1\_79]

1. He asked me what he was doing.

[Option ID = 304]

2. He asked me that what I was doing.

[Option ID = 305]

3. He asked me what I was doing.

[Option ID = 306]

4. He asked me why I was doing

[Option ID = 307]

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14) Fill in the blank with the most appropriate word.

All we have to fear is fear \_\_\_\_\_.

[Question ID = 80][Question Description = SEC1\_80]

1. ourselves

[Option ID = 308]

2. myself

[Option ID = 309]

3. itself

[Option ID = 310]

4. yourself

[Option ID = 311]

15) Which of the following sentences is correct ?

[Question ID = 81][Question Description = SEC1\_81]

1. He was selected the very best player of the tournament.

[Option ID = 312]

2. He was selected the more best player of the tournament.

[Option ID = 313]

3. He was selected the more better player of the tournament.

[Option ID = 314]

4. He was selected the best player of the tournament.

[Option ID = 315]

16) Identify the word which means the same as 'sift'.

[Question ID = 82][Question Description = SEC1\_82]

1. examine

[Option ID = 316]

2. calamity

[Option ID = 317]

3. worthiness

[Option ID = 318]

4. problematic

[Option ID = 319]

17) Fill in the blank with a suitable preposition.

I prefer reading a book \_\_\_\_\_ watching a movie.

[Question ID = 83][Question Description = SEC1\_83]

1. then

[Option ID = 320]

2. over

[Option ID = 321]

3. to

[Option ID = 322]

4. against

[Option ID = 323]

18) Pick out the correct sentence in passive voice of the following sentence :

We compelled the enemy to surrender

[Question ID = 84][Question Description = SEC1\_84]

1. The enemy is compelled to surrender by us.

[Option ID = 324]

2. We compel the enemy to surrender.

[Option ID = 325]

3. The enemy was compelling to surrender by us.

[Option ID = 326]

4. The enemy was compelled to surrender by us.

[Option ID = 327]

19) Rearrange the following parts of a sentence in order to make a meaningful sentence

P responsible for anything

Q we would be held

R that went wrong

S we were told that

[Question ID = 85][Question Description = SEC1\_85]

1. RQPS

[Option ID = 328]

2. SQRP

[Option ID = 329]

3. SQPR

[Option ID = 330]

4. PQRS

[Option ID = 331]

20) A person belonging to the same period with another person is called \_\_\_\_\_

[Question ID = 86][Question Description = SEC1\_86]

1. predecessor

[Option ID = 332]

2. contemptuous

[Option ID = 333]

3. contemporary

[Option ID = 334]

4. successor

[Option ID = 335]

21) Rearrange the following parts of a sentence in order to make a meaningful sentence

- P for five years, I was sure  
Q when I decided to go abroad  
R that my grandmother would be upset  
S and at her age one could never tell

[Question ID = 87][Question Description = SEC1\_87]

1. RSPQ

[Option ID = 336]

2. PSRQ

[Option ID = 337]

3. SPQR

[Option ID = 338]

4. QPRS

[Option ID = 339]

22) Which of the following sentences is correct ?

[Question ID = 88][Question Description = SEC1\_88]

1. Though my grandfather is very old but he is very active

[Option ID = 340]

2. My grandfather is not inactive for his old age

[Option ID = 341]

3. My grandfather is without activities but his old age

[Option ID = 342]

4. Although my grandfather is very old, he is very active

[Option ID = 343]

23) Fill in the blanks with a suitable form of verb

Neither of the players \_\_\_\_\_ adequately prepared for the tournament.

[Question ID = 89][Question Description = SEC1\_89]

1. are

[Option ID = 344]

2. is

[Option ID = 345]

3. am

[Option ID = 346]

4. were

[Option ID = 347]

24) Pick out the part of sentence which has an error. If there is no error mark '4'.

It wasn't necessary for her

A

to take time of work

B

when her son was ill

C

[Question ID = 90][Question Description = SEC1\_90]

1. A

[Option ID = 348]

2. B

[Option ID = 349]

3. C

[Option ID = 350]

4. No error

[Option ID = 351]

25) The following sentence is divided into three parts. One of the parts has an error. Identify the part which has an error. If there is no error, mark '4'

The admission ticket

A

entitling her to

B

win a prize

C

[Question ID = 91][Question Description = SEC1\_91]

1. A  
[Option ID = 352]
2. B  
[Option ID = 353]
3. C  
[Option ID = 354]
4. No error  
[Option ID = 355]

Topic:- Set1\_VA and RC\_B

1) Read the following passage carefully and answer the questions that follow.

Man's growth from barbarism into civilization is supposed to be the theme of history. But sometimes, looking at great stretches of history, it is difficult to believe that we are very much civilized or advanced. There is enough of want of co-operation today as we see one country or people selfishly exploiting another.

Man in many ways has not made very great progress from other animals. Still, we look down upon the insects as almost the lowest of living things and yet the tiny bees and ants have learnt the art of co-operation and of sacrifice for the common good far better than man. If mutual co-operation and sacrifice for the good of society are the test of civilization, we may say that the bees and ants are superior to man. The old saying goes as follows: "For the family, sacrifice the individual, for the community, the family, for the country, the community, and for the soul, the whole world." It teaches us the lesson of co-operation and sacrifice for the larger good which we may have forgotten. How wonderful it is to see men and women, and boys and girls smilingly going ahead on the path of progress without caring any pain or suffering? Well, may they smile and be glad for the joy of serving a great cause which is theirs; and for those who are fortunate, comes the joy of sacrifice too.

What is the theme of above passage ?

[Question ID = 92][Question Description = SEC1\_92]

1. The Rise and Fall of Empires  
[Option ID = 356]
2. Man's search for Truth  
[Option ID = 357]
3. Man's Moral and Spiritual Development  
[Option ID = 358]
4. Man's quest for Idealism  
[Option ID = 359]

2) Read the following passage carefully and answer the questions that follow.

Man's growth from barbarism into civilization is supposed to be the theme of history. But sometimes, looking at great stretches of history, it is difficult to believe that we are very much civilized or advanced. There is enough of want of co-operation today as we see one country or people selfishly exploiting another.

Man in many ways has not made very great progress from other animals. Still, we look down upon the insects as almost the lowest of living things and yet the tiny bees and ants have learnt the art of co-operation and of sacrifice for the common good far better than man. If mutual co-operation and sacrifice for the good of society are the test of civilization, we may say that the bees and ants are superior to man. The old saying goes as follows: "For the family, sacrifice the individual, for the community, the family, for the country, the community, and for the soul, the whole world." It teaches us the lesson of co-operation and sacrifice for the larger good which we may have forgotten. How wonderful it is to see men and women, and boys and girls smilingly going ahead on the path of progress without caring any pain or suffering? Well, may they smile and be glad for the joy of serving a great cause which is theirs; and for those who are fortunate, comes the joy of sacrifice too.

Animals are superior to men because of their \_\_\_\_\_

[Question ID = 93][Question Description = SEC1\_93]

1. Physical strength  
[Option ID = 360]
2. great instinct for co-operation

[Option ID = 361]

3. rude and blind behavior

[Option ID = 362]

4. carefree life

[Option ID = 363]

3) Read the following passage carefully and answer the questions that follow.

Man's growth from barbarism into civilization is supposed to be the theme of history. But sometimes, looking at great stretches of history, it is difficult to believe that we are very much civilized or advanced. There is enough of want of co-operation today as we see one country or people selfishly exploiting another.

Man in many ways has not made very great progress from other animals. Still, we look down upon the insects as almost the lowest of living things and yet the tiny bees and ants have learnt the art of co-operation and of sacrifice for the common good far better than man. If mutual co-operation and sacrifice for the good of society are the test of civilization, we may say that the bees and ants are superior to man. The old saying goes as follows: "For the family, sacrifice the individual, for the community, the family, for the country, the community, and for the soul, the whole world." It teaches us the lesson of co-operation and sacrifice for the larger good which we may have forgotten. How wonderful it is to see men and women, and boys and girls smilingly going ahead on the path of progress without caring any pain or suffering? Well, may they smile and be glad for the joy of serving a great cause which is theirs; and for those who are fortunate, comes the joy of sacrifice too.

What is the basic reason of exploitation of one man by another ?

[Question ID = 94][Question Description = SEC1\_94]

1. Moral Turpitude

[Option ID = 364]

2. Lack of Education

[Option ID = 365]

3. High Ethics

[Option ID = 366]

4. Weakness of some people

[Option ID = 367]

4) Read the following passage carefully and answer the questions that follow.

Man's growth from barbarism into civilization is supposed to be the theme of history. But sometimes, looking at great stretches of history, it is difficult to believe that we are very much civilized or advanced. There is enough of want of co-operation today as we see one country or people selfishly exploiting another.

Man in many ways has not made very great progress from other animals. Still, we look down upon the insects as almost the lowest of living things and yet the tiny bees and ants have learnt the art of co-operation and of sacrifice for the common good far better than man. If mutual co-operation and sacrifice for the good of society are the test of civilization, we may say that the bees and ants are superior to man. The old saying goes as follows: "For the family, sacrifice the individual, for the community, the family, for the country, the community, and for the soul, the whole world." It teaches us the lesson of co-operation and sacrifice for the larger good which we may have forgotten. How wonderful it is to see men and women, and boys and girls smilingly going ahead on the path of progress without caring any pain or suffering? Well, may they smile and be glad for the joy of serving a great cause which is theirs; and for those who are fortunate, comes the joy of sacrifice too.

How can we be truly civilized ?

[Question ID = 95][Question Description = SEC1\_95]

1. by getting more wealth

[Option ID = 368]

2. by getting more power

[Option ID = 369]

3. by getting higher education

[Option ID = 370]

4. by developing qualities of mutual help

[Option ID = 371]

Topic:- Set1\_VA and RC\_C

1) Pick out the antonym of the word 'jocund'

[Question ID = 96][Question Description = SEC1\_96]

1. zealous  
[Option ID = 372]
2. cheerful  
[Option ID = 373]
3. gloomy  
[Option ID = 374]
4. optimistic  
[Option ID = 375]

2) Pick out the antonym of the word 'dissimulate'

[Question ID = 97][Question Description = SEC1\_97]

1. concrete  
[Option ID = 376]
2. circulate  
[Option ID = 377]
3. concealed  
[Option ID = 378]
4. reveal  
[Option ID = 379]

3) Pick out the correct sentence from the following sentences

[Question ID = 98][Question Description = SEC1\_98]

1. He didn't liked to attend the lecture  
[Option ID = 380]
2. He hadn't like to attend the lecture  
[Option ID = 381]
3. He haven't liked to attend the lecture  
[Option ID = 382]
4. He didn't like to attend the lecture  
[Option ID = 383]

4) Pick out the part of sentence which has an error. If there is no error, mark '4'

(As I haven't see all the evidence,)

A

(I am reluctant)

B

(to make a judgement)

C

[Question ID = 99][Question Description = SEC1\_99]

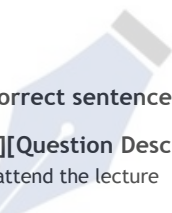
1. A  
[Option ID = 384]
2. B  
[Option ID = 385]
3. C  
[Option ID = 386]
4. No error  
[Option ID = 387]

5) Pick out the correct sentence in indirect narration of the following sentence:

He said, "How wise I am?"

[Question ID = 100][Question Description = SEC1\_100]

1. He exclaimed that I was very wise.  
[Option ID = 388]
2. He exclaimed that he was very wise.  
[Option ID = 389]



3. He exclaimed that I am very wise

[Option ID = 390]

4. He regretted that he was very wise.

[Option ID = 391]

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