

### SAMPLE PAPER

### Class 10

### (Based on Class 10 Syllabus)

Time Allowed : 3 hrs

Maximum Marks : 100

### MATHEMATICS

Q1.If two positive integers 'a' and 'b' are written as  $a=pq^2$  and  $b=p^3q^2$ , where 'p' and 'q' are prime numbers, then LCM(a, b) =

a)pq b)  $p^2q^3$ c)  $p^3q^2$  d) p2q2

### Ans-c

We know that LCM = product of the highest powers of all the prime factors of the numbers  $pq^2$ ,  $p^3q^2$  is  $p^3q^2$ 

### Q2. Which is the least positive integer that is divisible by 20 and 24.

a)120 b)360 c)140 d)240

Ans-a

Least positive integer divisible by 20 and 24 is

LCM of (20, 24).

20= $2^2 \times 5$ 24= $2^3 \times 3$ ∴ LCM (20, 24) =  $2^3 \times 3 \times 5 = 120$ Thus 120 is divisible by 20 and 24

### Q3. The HCF of two consecutive numbers is ?

a)2 b)1 c)3 d)0

Ans-b

The HCF of two consecutive numbers is always 1.

(e.g. HCF of 24, 25 is 1)

Q4. The LCM	of two	consecutive n	umbers is _		·
a)Their sum	b)0	c)Their differ	ence d)	Their produc	t
Ans-d					
The LCM of t	wo cons	ecutive numbe	ers is alway	s their produ	ict
(e.g the LCN	1 of 24	, 25 is equal to	24 x 25 = 6	00)	
Q5. If the sur is ?	n of the	e zeroes of the	cubic polyr	nomial 4x <sup>3</sup> –k	$x^2$ –8x–12 is $\frac{-3}{4}$ , then the value of 'k'
a) 2		b)-3	c) $\frac{-1}{3}$	d) 3	

Ans-b

Let  $\alpha, \beta, \gamma$  are the zeroes of the given polynomial.

Given:  $\alpha + \beta + \gamma = \frac{-3}{4} \Rightarrow \frac{-b}{a} = \frac{-3}{4} \Rightarrow \frac{k}{4} = \frac{-3}{4} \Rightarrow k = -3$ 

Q6.If a pair of linear equation is consistent, then the lines will be	
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a)always intersecting	b)parallel
c)intersecting or coincident	d)always coincident

Ans-c- intersecting or coincident

Q7. The area of th	e triangle formed by	x + 3y = 6, 2x – 3y = 12	and the y – axis is
a) 16 sq.units	b)18 sq.units	c)20 sq.units	d)14 sq.units

### Ans-b

Please see the two solutions of each of the given equations : x+3y=6; 2x-3y=12

y 2 1 0	х	0	3	6	
	у	2	1	0	

х	0	3	6
у	-4	-2	0

: Area of triangle =  $\frac{1}{2}$  x Base x Height =  $\frac{1}{2} \times 6 \times 6 = 18$  sq. units

### Q8. A quadratic equation whose one root is 3 is

```
a) x2-5x-6 = 0

b) x2 + 5x-6=0

c) x^2-5x + 6 = 0

d)None of these

Ans-c

x=3 satisfies only the equation x^2-5x+6=0

As (3)^2-5\times3+6=0

\Rightarrow 9-15+6=0

\Rightarrow 15-15=0

\Rightarrow 0

\Rightarrow L.H.S. = R.H.S.
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## Q9.What type of equation is the following:

5x²+8x+4=2x²+4x+6a)Linear equationb)Cubic equationc)Constant equationd)Quadratic EquationAns-dGiven:  $5x^2+8x+4=2x^2+4x+6$ 

 $\Rightarrow 5x^2 - 2x^2 + 8x - 4x + 4 - 6 = 0$  $\Rightarrow 3x^2 + 4x - 2 = 0$ Here, the degree is 2, therefore it is a quadratic equation.

### Q10. The product of two successive integral multiples of 5 is 1050. Then the numbers are

a)35 and 45 b)25 and 30 c)30and 35 d)28 and 36

Ans-c

Let one multiple of 5 be x, then the next consecutive multiple of will be (x+5). According to the question,

```
x(x+5)=1050

\Rightarrow x^2+5x-1050=0

\Rightarrow x^2+35x-30x-1050=0

\Rightarrow x(x+35)-30(x+35)=0

\Rightarrow (x-30)(x+35)=0

\Rightarrow x-30=0 and x+35=0

\Rightarrow x=30 and x=-35

x=-35 is not possible therefore x=30

Then the other multiple of 5 is x+5=30+5=35

Then the numbers are 30 and 35.
```

### Q11. Progressions with equal common difference are known as \_\_\_\_\_\_.

a)Geometric progression b)Harmonic progression

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c)Constant progression d)Arithmetic progression

Ans-d- Arithmetic progression

Q12. If a, b and c are in A.P., then the relation between them is given by which of the following .

```
a)2a = b + c b)a = b + c
c)2c = a + c d)2b = a + c
Ans- d
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If a, b and c are in A.P., then t  $b=\frac{a+c}{2} \Rightarrow 2b=a+c$ 

Q13. The list of numbers – 10, – 6, – 2, 2, ..... is

a)an AP with d = 4 b)not an AP c)an AP with d = 8 d)an AP with d=-4 Ans-a Given: list of numbers -10, -6, -2, 2, ...Here, -6-(-10)=-6+10=4-2-(-6)=-2+6=42-(-2)=2+2=4Therefore, the list of given numbers is an A.P with common difference 4.

## Q14. If $\triangle ABC \sim \triangle EDF$ and $\triangle ABC$ is not similar to $\triangle DEF$ , then which of the following is not true?

- a) BC .DE = AB .FD.
- b) BC .DE = AB .FD.
- c) BC.DE = AB.EF
- d) BC.EC = AC.FC

## Ans-c

If  $\triangle ABC \sim \triangle EDF$  and  $\triangle ABC$  is not similar to  $\triangle DEF$ , then BC. DE = AB . EF  $\Rightarrow \frac{BC}{EF} = \frac{AB}{DE}$ 

Here according to the given condition, BC. DE ≠AB .EF

Q15. The values of 'y' for which the distance between the points (2, -3) and (10, y) is 10 units is

- a) 3, 9
- b) 3,9
- c) 3,-9
- d) None of these

Ans-c

```
Let one point be A (2,-3) and 2nd point is B (10,y) and the distance between point A and point B =

AB = 10 units

\thereforeAB<sup>2</sup>=(x2-x1)<sup>2</sup>+(y2-y1)<sup>2</sup>

\Rightarrow(10)<sup>2</sup>=(10-2)<sup>2</sup>+(y+3)<sup>2</sup>

\Rightarrow100=64+y<sup>2</sup>+9+6y

\Rightarrowy<sup>2</sup>+6y-27=0

\Rightarrowy<sup>2</sup>+9y-3y-27=0

\Rightarrow(y+9)(y-3)=0

\Rightarrowy=3 and y=-9
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Q16.From a point on the ground which is 15m away from the foot of a tower, the angle of elevation is found to be  $60^{\circ}$ . What will be the height of the tower ?

a)√203m b)103m c)15√3 d)None of these





Let the height of the tower be h metres. In triangle AOB,  $\tan 60^{0}$ =AB/OA  $\Rightarrow \tan 60^{0}$ = h/15  $\Rightarrow \sqrt{3}$ =h/15  $\Rightarrow$ h=15 $\sqrt{3}$ Therefore, the height of the tower is 15 $\sqrt{3}$  meters. Q17.In the given figure, RQ is a tangent to the circle with centre O. If SQ = 6 cm and QR = 4 cm, then what is OR is equal to ?



a)3cm b)7 cm c)5cm d)10 cm

Ans-c

Here SQ = 6 cm, then OQ= OS =6/2 = 3 cm [Radii] and  $\angle Q = 90^{\circ}$ Now, in triangle OQR, OR<sup>2</sup> = QR<sup>2</sup> + OQ<sup>2</sup>  $\Rightarrow$ OR<sup>2</sup> = (4)<sup>2</sup> + (3)<sup>2</sup> = 16 + 9 = 25  $\Rightarrow$  OR = 5 cm

Q18.Fill in the blanks: The value of sin A or cos A \_\_\_\_\_\_, whereas the value of sec A or cosec A is .

a) is always greater than 1 ; equal to one
b) never exceeds 0 ; is less than 1
c) never exceeds 1 ; always greater than or equal to 1
d) None of these

Ans-c

Q19. Fill in the blanks: The tangent to a circle is \_\_\_\_\_\_ to the line joining the center and the point of contact.

a)parallel b)perpendicular c)diagonal d)None of these

Ans-b

Q20. Fill in the blanks:
A solid obtained by revolving a right angled triangular lamina about any side (other tha the
hypotenuse) is called a

a)spherical sphere b)cylinder c) right circular cone d)None of the above Ans-c

## Q21.When the medians of a triangle are concurrent.What is their point of concurrence called?

a)Center b)Centroid c)Collinear d)None of these

Ans-b

## Q22.What is a polynomial of degree zero called ?

a)Linear polynomial b)Quadratic polynomial c)Bi-quadratic polynomial d)Constant polynomial

Ans-d

## Q23. What is the mean of the first 10 prime numbers ?

a)1.40 b)130 c)12.90 d)16.80

Ans-c

The first 10 prime numbers are 2, 3, 5, 7, 11, 13, 17, 19, 23, 29 ∴ Mean = Sum of first 10 prime numbers/10 = (2+3+5+7+11+13+17+19+23+29) / 10 = 129 / 10 = 12.9

## Q24. The probability that a leap year will have 53 Sundays or 53 Mondays is ?

a)  $\frac{4}{7}$ 

b) <mark>8</mark> 12

c)  $\frac{3}{7}$ 

d)  $\frac{4}{53}$ 

### Ans-c

Leap year contains 366 days = 52 weeks + 2 days 52 weeks contain 52 Sundays and 52 weeks contain 52 Mondays We will get 53 Sundays or 53 Mondays if one of the remaining two days is a Sunday or Monday Total possibilities for two days are: (Sunday, Monday), (Monday, Tuesday), (Tuesday, Wednesday), (Wednesday, Thursday), (Thursday, Friday), (Friday, Saturday), (Saturday, Sunday) Number of Total possible outcomes = 7 Number of possible outcomes either Sunday or Monday or Both = 3 Required Probability =  $\frac{3}{7}$ 

Q25. A card is drawn from a pack of 52 cards at random. The probability of getting neither an ace nor a king card is ?

a) 
$$\frac{4}{13}$$
  
b)  $\frac{11}{13}$ 

c) 
$$\frac{2}{52}$$

## Ans- b

a) Number of Total outcomes = 52 Number of aces and Number of kings = 4 + 4 = 8 Number of cards except ace and king = 52 - 8 = 44 Required Probability =  $\frac{44}{52} = \frac{11}{13}$ 

## SCIENCE

# Q26.Suppose you dissolve some crystals of copper sulphate in water. Then what will be the colour of the solution so obtained?

a) Red	b)Brown	c)Blue	d)Pink
Ans-c-Blue			

## Q27.What is the colour of zinc metal ?

a) Brown	b)Silver	c)White	d)Grey
Ans-d-Grey			

# Q28.Which one of the following will be required to identify the gas evolved when diluted HCl reacts with zinc metal?

a) Litmus Solu	ition b)Water	c)Lime Water	d) A burning splinter		
Ans-d- A burning s	plinter				
Q29.The basic nate following ions in t		kide (NaOH) is due to t	he presence of which one of the		
a) Chloride Io Ans-b- Hydroxide i		ons c)Sodium lo	ons d)None of these		
=	causes the bubs to ble has acid . has proteins	= =	the first shower of rain ?		
a) It does not react b) It reacts violentl c) It reacts less viol	with water y with water lently with water	m is treated with wate			
a) C & D b) C	с&в с) А	All of these d)Only A			
Ans-a					
Q32.Which of the	following factors doe	s not affect photosynt	thesis ?		
a)Temperature c)Carbon dioxide c	oncentration in the ai	b)Wind velocity r d)Intensity of Light	t		
Ans-b-Wind Veloci	ty				
<b>Q33.Which of the</b> a) Renal Arter Ans-c-Renal Vein	-	ss nitrogenous waste ? rtery c)Renal Ve			
Q34.What does En	zyme thromboplastii	n convert ?			
a) Thrombin to fibr b) Thrombin to pro c) Prothrombin to d) All of these Ans-c- Prothrombin	othrombin Thrombin				
Q35.Name the boo	Q35.Name the body part where anaerobic respiration takes place ?				
a)Cytoplasm	b)Protoplasm	c)Chloroplast	d)None of these		
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Ans-a- Cytoplasm					
Q36.Which hormone	e brings about o	contraction of	the uterine w	all leading to labour pain?	
a)Ultracin b)Estr Ans-c - Progesterone	•	c)Progestero	ne d)No	ne of these	
Q37.Which part of th	ne brain is conc	erned with m	emory, will an	d power?	
a)Fore Brain b)Hind	d Brain c)Mid	Brain d)Nor	ne of these		
Ans- a-Fore Brain					
Q38.Which of the fo	llowing plant is	unisexual?			
a) Mustard	b)Water Melo	on c)Hibi	scus	d)All of these	
Ans-b-Water Melon					
Q39.Which of the fo	llowing is not a	hermaphrodi	te?		
a)Leech Ans-d-Bee	b)Earthworm	c)Starfish	d)Bee	ġ	
Q40.What type of m	irrors are gene	rally used to d	lemonstrate re	eflection of light in Laboratories?	
a)Concave Mirror b)Convex Mirror c)Plane Mirror d)All of these Ans-c-Plane Mirror					
<ul> <li>Q41.Find the incorrect statement</li> <li>a)Concave mirrors are used for the purpose of shaving.</li> <li>b) Concave mirrors are used by doctors to focus light inside the ear or inside the mouth for medical examination</li> <li>c)Convex Mirrors are used by dentists to see large images of teeth of patients.</li> <li>d)Convex mirrors are used as rear view mirrors in cars, motorcycles, scooters etc</li> </ul>					
a)A b)A & D c)C d)All are correct					
Ans-c					
Q42.Which of the following materials cannot be used to make a lens?					
a)Plastic Ans-b-Clay	b)Clay	c)Glass	d)Water		
Q43.Which of the following is good conductor of electricity?					
a)Metal b)Rub Ans-a-Metal	ber c)Mica	n d)All d	of these		

Q44.Which of the following fuse should be used for an electric iron of 1kw when operated at 220v?

a)1A b)2A c)5A d)7A

Ans-c-5A

Q45.In an electric circuit the direction of electric current moves

a) from negative to negativeb) from positive to positivec)from positive to negatived)any direction

Ans-c- from positive to negative

### Q46.Which of the following is not an example of a biomass energy source?

a)Wood	b)Coal	c)Gobar gas	d)Atomic Energy
ajvvoou	DJCUai	CJOUDAI gas	

Ans-d-Atomic Energy

### Q47.Artificial satellites and space probes mainly depend upon which source of energy?

a)Geothermal Energy b)V	Vind Energy c)Sola	r Energy d)None of these
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Ans-c-Solar energy

### Q48.Which has a lowest ignition temperature ?

a)LPG b)Petrol c)Kerosene d)Diesel

Ans-a-LPG

### Q49.What is UASB?

a) United anaerobic sledge Blanketb) Up flow aerobic sledge Blanketc)United Assistance Survellenance Boardd)Upflow Anaerobic Sledge Blanket

Ans-d

### Q50.Which disease is caused by inhalation of cotton fibres?

a) pneumoconiosis b)Silicosis c)Byssinosis d)Cancer Ans-c- Byssinosis

### GENERAL KNOWLEDGE

Q51. In which state is Haz	aribagh National park i	s located?					
a) Bihar	b) Uttar Pradesh	c) Rajasthan	d) Jharkhand				
Answer : d							
Q52. Where is the Prince	of Wales Museum locat	ed?					
a) New Delhi	b) Mumbai	c) Kolkata	d) Chennai				
Answer : b							
Q53. M.S. Gopla Krishnan	is a famous exponent	of which musical instru	ment?				
a) Violin	b) Sitar	c) Veena	d) Tabla				
Answer : a							
Q54. Nirad C. Chaudhuri is	s a famous	_?					
a) Film Director	b) Writer	c) Classical singer	d) None of these				
Answer : b							
Q55. Who is the author of Ghasiram Kotwal?							
a) Munshi Premcha	nd	b)Amrita Preetam					
c) Vijay Thendulkar		d)R K Narayan					
Answer : b							
Q56. In which year did Na	dir Shah invade India?						
a) 1688	b) 1739	c) 1811	d) 1487				
Answer : b							
Q57. Where did Aurobind	o Ghosh set up the Aur	obindo Ashram?					
a) Kolkata	b) Puducherry	c) Cuttak	d) Berhampur				
Answer : b							
Q58. In which year did Ga	ndhiji start the Champe	eron Campaigh against	the British Rule?				
a) 1901	b) 1932	c) 1917	d) 1911				
Answer : c							
Q59. Typhoid affects whic	h organ?						
a) Liver	b) Nervous system	c) Intestine	d) Stomach				
Answer : c							

Q60. Who develo	oped the v	vaccine of Chickenpox?		
a) Edward J	enner	b) Robert Kock	c) James Watson	d) Ronald Ross
Answer : a				
Q61. What is the	study of	cells called?		
a) Cryobiolo	ogy	b) Cytology	c) Bryology	d) Ethology
Answer : b				
Q62. How many	times was	Gulzari Lal Nanda the	Prime Minister of India	1?
a) One		b) Two	c) Three	d) None
Answer : b				
Q63. Who is the	current Cl	nief Election Commissio	oner of India?	
a) B.B. Tanc	lon	b) Nasim Zaidi	c) V.S. Sampath	d) S.Y. Quraishi
Answer : b				
Q64. What is the	full form	of W.P.I?		
a) World Pc	pulation I	nstitute	b) Western Pulmonar	y Institute
c) Wholesal	e Price Inc	dex	d) None of these	
Answer : c				
Q65. Jnanpith av	vard is aw	arded for	?	
a) Outstand	ling Social	work	b) Outstanding Litera	ry Work
c) Excellenc	e in Educa	ition	d) Sporting achievem	ent
Answer : b				
Q66. A Tale of Ty	vo Cities,	the famous book by Ch	arles Dickens is based	on which two cities ?
a) Washing	ton & New	/ York	b) London and Paris	
c) New York	and Paris		d) London and Genev	а
Answer : b				
Q67. Who was th	ne last Gov	vernor General of India	1?	
a) Lord Mou	unt Batten	b) Rajendra Prasad		
c) C. Rajago	palachari	d) Lord Irvin		
Answer : c				
Q68. Who invent	ted Dynan	nite?		
a) Albert Eiı	nstein	b) Alfred Noble	c) Ruther Ford	d) Thomas Edison

Answer : b						
Q69. Where were the 201	4 Commonwealth game	es held ?				
a) Glasgow	b) Buson	c) London	d) New Delhi			
Answer : a						
Q70.Which Indian hockey	player has a road name	d after him in Germany	ı?			
a)Dhyan Chand	b)Dhanraj Pillai	c)Roop Singh	d)Zafar Iqbal			
Answer: c						
Q71.Kaziranga National Pa	rk is situated in which s	state ?				
a)Himachal Pradesh	b)Assam	c)Meghalaya	d)Madhya Pradesh			
Answer : b						
Q72.Who was the first Ind	ian woman to conquer	Mount Everest?				
a)Santosh Yadav	b)Jyothi Randhawa	c)M.Poorna	d)Bachendri Pal			
Answer : d						
Q73.Who was the first Ind	ian President to sail in a	a Submarine?				
a)Pranab Mukherjee	b)V V Giri	c)Dr Abdul Kalam	d)K R Narayan			
Ans-c						
Q74. Who was the first woman from India to be conferred Sainthood by the Vatican ?						
a) Sister Nirmala	b)Mother Teresa	c)Sister Alphonsa	d)None of these			
Answer : c						
Q75. The first battle of Par	iipat took place in whic	h year?				
a)1526	b)1761	c)1621	d)1521			
Answer : a						
MENTAL ABILITY						
Q76.Let us assume that the first and second letters of the word "DEPRESSION" are interchanged.Then the third and fourth letters ,the fifth and sixth and so on.Now which of the following letter will be the seventh letter from the right.						
a)R	b)S	c)P	d)E			
Answer : c The new sequence of letter EDRPSEISNO Therefore the seventh lette						

## Q77.Which of the following does not belong to the group?

a)Bread	b)Chocolate	c)Cake	d)Biscuit					
Answer-b								
Chocolate is not baked, v	whereas all the other it	ems are.						
Q78.If in a certain code I code?	MAGE is written as 91	3175 ,then how will	SMALL be written	in the same				
a)913714 Answer-b	b)19131212	c)2121391	d)3942156	3				
Answer- The code here is on.Therefore,if this is the Therefore,SMALL will be	case IMAGE is 913175		is 1,B is 2 and so					
Q79.Suppose the value of be the value of PARROT		ode is 56 and that of	SHEET is 57 ,then	what will				
a)80	b)58	c)65	d)88					
Assuming the code here value of PAPER will be th P(16)+A(1)+P(16)+E(5)+R	Answer-d Assuming the code here is based on the alphabet nos.For example,A is 1,B is 2 and so on.Then,the value of PAPER will be the sum of all the nos . P(16)+A(1)+P(16)+E(5)+R(18) = 56							
SHEET :S(19)+H(8)+E(5)+I	E(5)+T(20) = 57							
PARROT: P(16)+A(1)+R(1	8)+ R(18)+O(15)+T(20)	=88						
In the following questions ,there is some relationship between the two terms to the left of :: and the same relationship is applicable to the two terms on the right.One of these two terms on the right is missing.Find out this term.								
Q80. ACE : FHJ ::OQS :								
a)TVX Answer-a Each letter of the first gro corresponding letter of tl A+5=F ; C+5=H ; E+5=J Hence if the same relatio	ne second group.							
Q81.Dda : aDD :: Rrb :								
a)aDR		b) bRR	c)BRR	d)BBr				
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### Answer -b

The order of the letters of the first group is reversed first (Hence Dda is reversed to adD). Then the middle letter is replaced by its capital letter. Therefore it will become aDD. Similarly Rrb will become bRR.

### Answer the following two questions based on the English Alphabets series (A - Z)

Q82. Which letter is	exactly midway bet	ween N an	d S?			
a) No letter	b) L		c) M		d) O	
Answer :a						
N O P Q R S						
There is no one midd	le letter.					
	l be the 9 <sup>th</sup> letter to t series is reversed?		f the nin	th letter fr	om the right, if the first hal	lf
a) D	b) E		c) F		d) I	
Answer :b						
The first half means A	to M.This is revers	ed.The rest	t remains	the same	.The new series will be:	
MLKJIHGFEDCB	S A N O P Q R S T U V	/ W X Y Z				
The ninth letter to th	e left of the ninth le	tter from t	he right	will therefo	ore be E.	
Q84.From the word 'LAPROSCOPY', how many independent words can be made without changing the order of the letters and using each letter only once?						
changing the of	ider of the letters a	ind using ea	achielle	r only once	er	
a) One	b) Two	ina using ea	c) Three		d) Four	
		ina using ea				
a) One	b) Two	ina using e				
a) One Answer :b	b) Two PY		c) Three			
a) One Answer :b Two words-LAP & CO	b) Two PY <b>series ,one term is</b>		c) Three			
a) One Answer :b Two words-LAP & CO <b>Q85.In the following</b>	b) Two PY <b>series ,one term is</b>		c) Three			
a) One Answer :b Two words-LAP & CO <b>Q85.In the following</b> 1 ,2, 4, 8, 16 , 32 , 64	b) Two PY <b>series ,one term is</b> , 96		c) Three		d) Four	
a) One Answer :b Two words-LAP & CO <b>Q85.In the following</b> 1 ,2, 4, 8, 16 , 32 , 64 a)8	b) Two PY <b>series ,one term is</b> , 96 b)16	wrong.Wh	c) Three ich is it? c)96		d) Four d)All are correct	
a) One Answer :b Two words-LAP & CO <b>Q85.In the following</b> 1 ,2, 4, 8, 16 , 32 , 64 a)8 Answer: c	b) Two PY <b>series ,one term is</b> , 96 b)16	wrong.Wh rm.Hence a	c) Three ich is it? c)96 after 64,i		d) Four d)All are correct	
a) One Answer :b Two words-LAP & CO <b>Q85.In the following</b> 1 ,2, 4, 8, 16 , 32 , 64 a)8 Answer: c Each term is double of	b) Two PY <b>series ,one term is</b> , 96 b)16 of the preceeding te <b>ssing number in the</b>	wrong.Wh rm.Hence a e diagram k	c) Three ich is it? c)96 after 64,i pelow.	t should be	d) Four d)All are correct	
a) One Answer :b Two words-LAP & CO <b>Q85.In the following</b> 1 ,2, 4, 8, 16 , 32 , 64 a)8 Answer: c Each term is double of	b) Two PY <b>series ,one term is</b> , 96 b)16	wrong.Wh rm.Hence a	c) Three ich is it? c)96 after 64,i		d) Four d)All are correct	



a) 45

b) 30

d) 18

Answer : b

The logic is as under:

(7 X 4 X 3) / 6 = 14

(9 X 2 X 6) / 6 =18

(12 X 2 X 4) / 6 = 16

Therefore (5 X 4 X 9) / 6 = 30

Q87.The following question is followed by 3 statements.Please determine which statement /statements is / are sufficient to answer the question, out of the options given.

Question : What is Varun's share of profit in a Joint Venture?

Statement I	:	Aniket started a business by investing Rs.80,000/
Statement II	:	Varun joined him after 3 months.
Statement III	:	Anil joined after 4 months with a capital of Rs.1,20,000/- and received Rs.6,000/- as his share of profit.

- a) Only I & III are sufficient.
- b) Only II & III are sufficient.
- c) All I, II and III together are necessary
- d) The question cannot be answered with I, II & III

Answer : d

Varun's investment amount is not given. Hence the question cannot be answered.

### Q88.Which of the following diagram correctly represents the relationship between wood, door, window and chair.





Answer :d



Q89.Which of the following diagrams represents correctly relation between the following. Roses, Jasmine, fruits and pomegranates.





Q90.Harish is a bird shooter.He went out in the morning to shoot birds.While returning he had a bag with birds in it.He was asked about how many birds he had in his bag. He replied that there were all sparrows but six; all pigeons but six and all ducks but six. How many birds did he have in all.

a)25 b)9 c)18 d)27

Answer-b

There were all sparrows but six means that six birds were not sparrows, but were pigeons and ducks.

ie Pigeons + Ducks = 6

Similarly;

Sparrows + Ducks = 6 ;and

Sparrows + Pigeons = 6

So we have 2(pigeons +ducks + sparrows)=18

or pigeons +ducks + sparrows = 18/2 =9

Q91. A bus leaves for Mumbai every thirty minutes from Hyderabad. Arjun enquired about the bus from the information desk. He told that a bus had already left 10 minutes ago and the next bus will leave at 9:35 a.m. At what time was this information given to Arjun?

a) 9:10 a.m. b) 8:55 a.m. c) 9:15 a.m. d) 9:08 a.m.

Answer-c

Since the next bus is at 9:35 am, this means the previous bus was at 9:05 am. If the bus had already

left 10 minutes ago, this means that Arjun got information at 9:15 am.

### Q92. Find the missing number in series: 3, 6, 24, 192, \_\_\_\_\_.

a)2782 b)3072 c)292 d)2702

Answer-b

The series goes like this:

**3** X 2=**6**; 6 X 4 =**24**; 24 X 8 =**192**; 192 X 16 =**3072** 

## Q93. Arrange the following words in alphabetical order and find which word comes in the middle ?

### Select ,Seldom, Selfish, Seller, Send, Second, Section

a)Seldom b)Select c)Seller d)Section

Answer-b

The given words can be arranged in the alphabetical order as :

Second, Section, Seldom, Select, Selfish, Seller, Send

Therefore , select comes in the middle.

Q94.Pointing towards a woman in the photograph, John said "the only daughter of her grandfather (Paternal) is my wife". How is John related to that woman ?

a) Uncle b) Father c) Maternal uncle d) Brother

Answer-a

Rajesh is the husband of woman's father's sister.

Q95.Ram faces towards the North. Turning to his right he walks 25 metres. He then turns to his left and walks 30 meters. Next, he moves 25 meters to his right. He then turns to his right again and walks 55 meters. Finally, he turns to the right and moves 40 meters. In which direction is he now from his starting point ?

a) South b)South West c)South East d)North West

Answer-c



Point B is his ending point. He is South East to his starting point.



Answer : c

No 5 is different.

1 is same as 2 rotated.3 is same as 7 rotated.4 is same as 6 rotated.

### Q97.Find the missing number ?

1	2	3
11	7	5
120	45	?
b)16	c)15	d)20

Answer-b

a)18

In ea	ch column,the third nu	mber is the difference o	of the squares of the oth	ier two numbers.
So 12	$0=11^2 - 1^2 = 121 - 1 = 1$	20		
Simila	arly ; 5 <sup>2</sup> - 3 <sup>2</sup> = 25-9 =16			
<b>Q98.</b>	Find the odd one out fi	rom the following four	?	
a)EHI	<n< td=""><td>b)KNRU</td><td>c)GJMP</td><td>d)MPSV</td></n<>	b)KNRU	c)GJMP	d)MPSV
Answ	ver-b			
In all	the others ,the next let	ter is 3 ahead ie <b>E</b> +3= <b>H</b>	<b>I</b> +3= <b>K</b> +3= <b>N</b>	
In KN	RU:			
<b>K</b> +3=	N+4=R+3=U			
Q99./	A is B's sister. C is B's i to D?	mother. D is C's father.	E is D's mother. Then	what is A's relationship
	a) Grandmother	b) Grandfather	c) Daughter	d) Granddaughter
Answ	ver:c			

A is the sister of B and B is the son/daughter of C.So A is the daughter of C.

## Q100.Sunil is now 6 times as old as his son.Four years from now ,the sum of their ages will be 43 years. What is Sunil's present age ?

a)31 years b)29 years c)30 years d)35 y	/ears
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Answer-c

Let present age of Sunil's Son=x yrs Age of Sunil:6 x yrs 4 yrs from now: (6x + 4) + (x + 4) = 437x=43-8 7x=35 x=35/7=5 yrs Hence Sunil's age=6 x 5 = 30 yrs