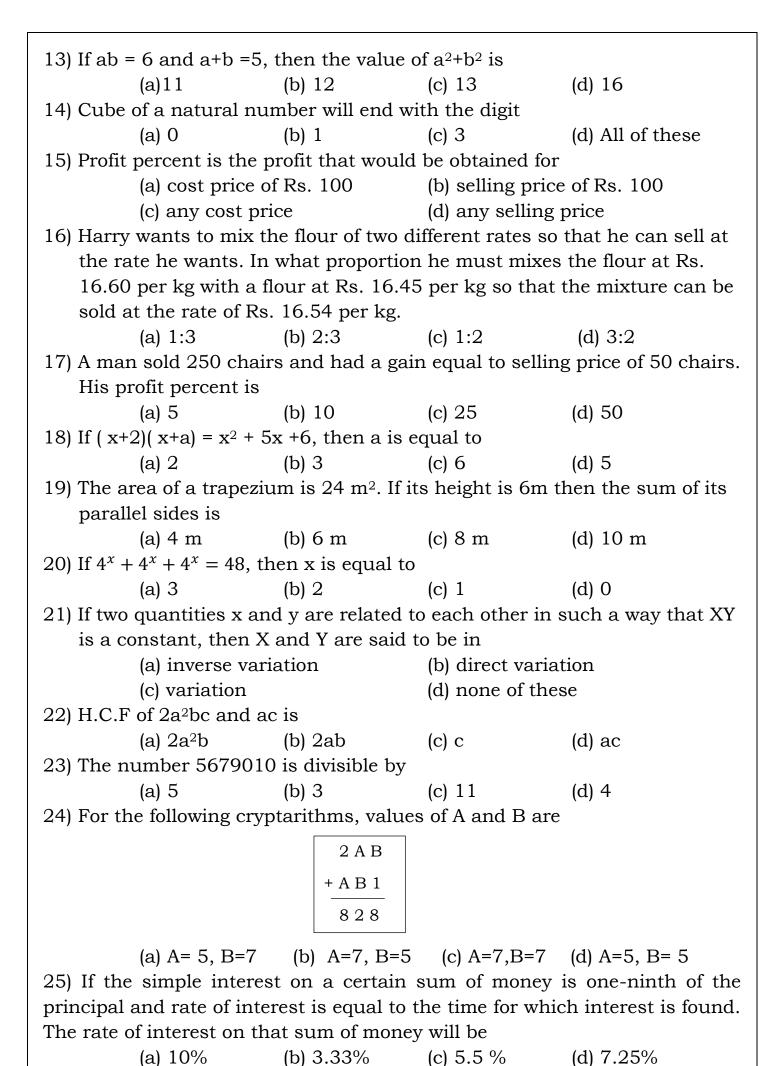
Time:-			tal: 50 Marks
Instructions :			
Question no. 1 toQuestion no. 41 to			
1) Find the value of the f	raction given by	10+20+30+	+400 +1200
1) Find the value of the factor (a) $\frac{1}{2}$	(b) $\frac{1}{3}$	(c) $\frac{1}{4}$	(d) $\frac{1}{5}$
2) Difference of $\frac{3}{5}$ and $\frac{2}{7}$ or	9	-	5
(a) 132	(b) 140	(c) 254	(d) 142
3) If \boldsymbol{x} is a rational numb			
` ,	(b) x ²	· •	` ,
4) What number should			
4	(b) $\frac{-5}{4}$	/	/
5) The number which wh (a) 14		_	s 264 is (d) 24
6) Which of the following	` '	(C) 2+0	(a) 2+
(a) equilateral	triangle is a reg		
` ' -	regular polygon		
` ,	s a regular polygo olygon is both eo		equilateral.
7) Simplify: $\frac{\sqrt{1024} - \sqrt{324}}{\sqrt{441} - \sqrt{196}}$		andisalar alla	equiaterai.
	[<u>-</u>	<u> </u>	<u> </u>
(a) 2	(b) $\sqrt{\frac{2}{5}}$	(c) $\sqrt{\frac{8}{5}}$	(d) $\sqrt{\frac{6}{25}}$
8) The least number musis:	st be subtracted	from 7250 to g	et a perfect square
	(b) 15		(d) 25
9) Which of the following	is not a Pythago (b) (5,12,13)	orean triplet?	(4) (8 20 25)
· · · · · · · · · · · · · · · · · · ·		(C) (1, 24, 23)	(d) (0, 20, 23)
10) If $Y = \sqrt[3]{2 \frac{93}{125}}$, then the	e value of Y is		
(a) $\frac{7}{5}$	(b) $\frac{5}{7}$	(c) $\frac{33}{7}$	(d) $\frac{13}{7}$
11) The least square number is			
	(b) 900		
12) The sum of the given is	expressions -5x	2+3x-8, 4x +7-2	$2x^2$ and $6-2x+2x^2$
(a) $2x^2+3x+4$		(b) x^2+2x+3 (d) $-5x^2+5x+5$	
(c) $9x^2+6x+4$		(a) -5x ² +5x+5	

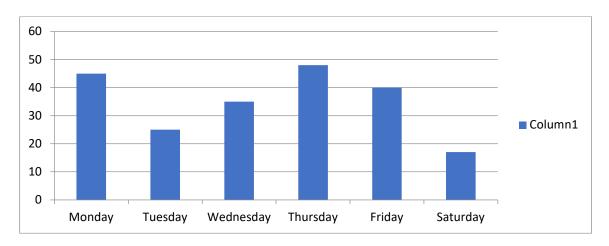
(BMO, Page 1 of 4)



(BMO, Page 2 of 4)

Given below a graph representing the number of electric bulbs sold by a shopkeeper during a week of the month:

(Read the graph to answer the question number 26 to 28)



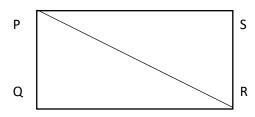
- 26) On which day of the week sale was minimum?
 - (a) Monday

(b) Saturday

(c) Friday

- (d) Tuesday
- 27) What was the total sale during the week?
 - (a) 200
- (b) 210
- (c) 521
- (d) 230
- 28) What is the ratio of sale of Monday and Friday?
 - (a) 5:9
- (b) 5:8
- (c) 9:8
- (d) 8:9
- 29) Find the number of three-digit numbers lying between 100 and 500 that are divisible by both 6 and 9
 - (a) 25
- (b) 22
- (c) 28

- (d) 30
- 30) The three numbers a,b,c are such that a:b = 4:5, b:c=5:6 then the ratio of a:c is
 - (a) 3:5
- (b) 6:1
- (c) 8:6
- (d) 2:3
- 31) The unit digit in the product of the numbers given by $19 \times 27 \times 11 \times 45 \times 33 \times 49$ is
 - (a) 2
- (b) 5
- (c) 1
- (d) 3
- 32) PQRS is a rectangle such that PS=2PQ, and the diagonal PR is 15m. The perimeter of the rectangle is



(a) $18\sqrt{5} \ m$

(b) 2m

(c) 4m

(d) $6\sqrt{3} \ m$

33) The average of the would be	e largest and sma	llest 3-digit num	bers formed by 0, 2 and 4			
	(b) 303	(c) 312	(d) 222			
()	• •	• •	a radius of 84 cm. If the			
wire is bent to for						
	(b) 225 cm	_	_			
, ,	• •	• •	· ·			
35) The ratio of ages of Hina and kanika is 4:3. The sum of their ages is 28 years.						
The age of Hina is		(a) 16 reages	(d) 10 mag			
	(b) 12 years	(c) To years	(a) 18 years			
36) Which of the following is true (a) sum of interior angles of a quadrilateral is 540						
(b) sum of interior angles of a pentagon is 720						
, ,	(c) sum of measures of the exterior angles of any polygon is 360					
(d) none of these						
37) When we perform an experiment then outcomes are known as equally likely if						
(a) there is only one outcome						
(b) all outcomes are Same						
(c) each outcomes has the same chance of occurrence						
(d) none of these						
38) The angle of rotational symmetry for the square is						
(a) 90	(b) 180		(d) 315			
39) complete the serie	` ,					
	(b) 40320					
40) Find odd one out		()	()			
· · · · · · · · · · · · · · · · · · ·	(b) 7202	(c) 6023	(d) 5061			
(2) 1020	(3) 1 2 3 2	(0) 0020	(4) 5551			
ACHIEVER'S SECTION						
41) Find the value of	$\sqrt[3]{x^{a-b}} \times \sqrt[3]{x^{b-c}} \times$	$\sqrt[3]{x^{c-a}} = ?$				
(a) 0	(b) 1	(a) \(\sqrt{v} \)	(d) \sqrt{x}			
(a) 0	(D) I	(C) VX	(d) $\sqrt{\frac{x}{2}}$			
42) A bag contains th	e coins of differer	nt denominations	such as 50 paise, 25			
paise and 10 paise. If the number of coins is in the ratio 4:6:10 respectively						
which total amount is Rs. 180. The number of 50 paise coin in the bag is						
(a) 90	(b) 160	(c) 240	(d) 400			
` ,	` '	` '	is close friend Harry for			
Rs. 4000 on credit. If he pays the interest for the first year at the rate of 5%						
and for the second year 15%. The cost of bike for victor if he pays the amount						
after two years.	14 year 10 /0. 1110		ietor ir ne pays the amount			
(a) Rs. 4530	(h) Rs 48'	30 (c) Rs. 493	30 (d) Rs. 4980			
` '	* *		• •			
44) If the area of the three adjacent faces of the room is p,q,r respectively, then the volume of air in the room is:						
		() 0	(1) 4			
(a) √pqr		(c) $3\sqrt{pqr}$	(d) $4\sqrt{pqr}$			
45) A retail fair price shop uses a weight balance and four weights of 1kg, 2 kg,						
4kg and 8kg to measure the weight of articles such as food grains. Find the						
number of different combinations of weight that shopkeeper can measure with						
the help of these weights.						
(a) 10	(b) 12	(c) 15	(d) 18			