PRACTICE TEST PAPER NO. 2 Mathematical Ability

Qs. 1-3. Study the given information carefully to answer the following questions.

A Basket contain 3 blue, 5 black and 3 red balls.

- 1. If two balls are drawn at random, what is the probability that none of there is blue?
 - (1) $\frac{21}{25}$

(2) $\frac{3}{55}$

(3) $\frac{28}{55}$

- (4) $\frac{9}{11}$
- (5) None of these
- 2. If 2 balls are drawn at random, what is the probability that one is black and one is red?
 - (1) $\frac{2}{11}$

(2) $\frac{8}{11}$

(3) $\frac{9}{11}$

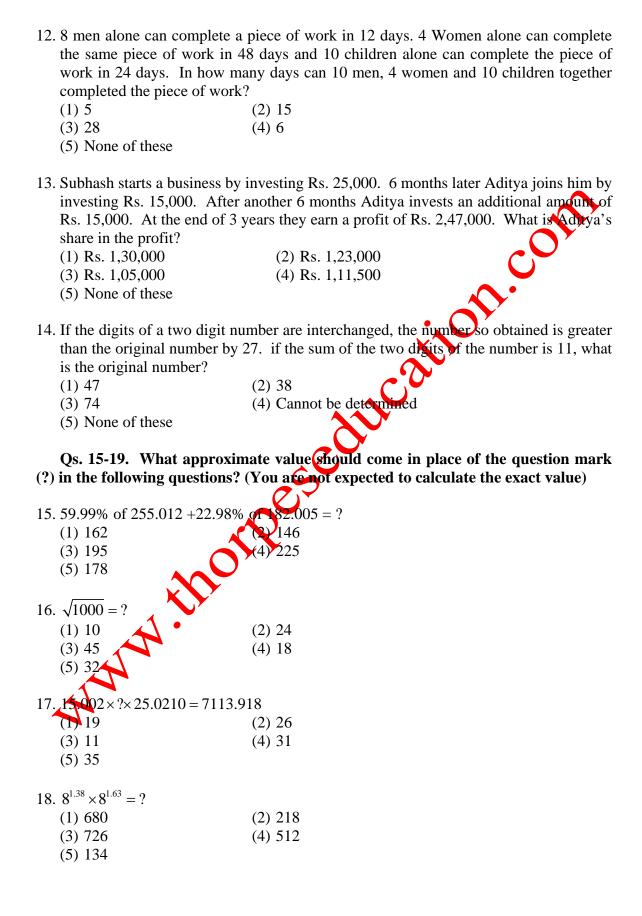
- (4)
- (5) None of these
- 3. If 3 balls are drawn at random what is the probability that all are black?
 - (1) $\frac{2}{33}$

(2) $\frac{1}{11}$

(3) $\frac{3}{11}$

- $(4) \frac{8}{33}$
- (5) None of these
- 4. A 180 metres long train crosses a platform of equal length in 18 seconds. What is the speed of the train?
 - (1) 22 metres/ second
- (2) 10 metres/ second
- (3) 15 metres/ second
- (4) 18 metres/ second
- (5) None of these

5.	What would p.c.p.a at the		-		est dra	wn or	n an am	ount of R	Rs. 18,400	/- @ 12	
	(1) Rs 4680.96 (3) Rs 6235.2143			(2) Rs 7450.6752 (4) Rs 8042.16							
	(5) None of	these									
nu	Qs. 6-9. Wi mber series?		ıld come	e in pla	ace of	the qu	ıestion	mark (?) in the fo	ollowing	
6.	24 ? (1) 71	109	13	4 (2) 6	150		159				_
	(3) 86			(4) 5							
	(5) None of	these							C		
7.	3 20 (1) 8410 (3) 10098 (5) None of	78	332	(2) 99 (4) 1		?		dic	3D.C		
	(3) None of	uiese					6				
8.	13 30 (1) 210 (3) 428 (5) None of	66	140	? (2) 29 (4) 4	90	592		O ^c			
	(3) None of	uicsc			.0						
9.	3 5 (1) 75 (3) 45	15	?	1125 (2) 2 (4) 8		34375					
	(5) None of	these	A.	V							
10.	. A boat take	s 8 hou	rs to co	ver a	distanc	e whi	ile trav	eling ups	stream, w	hereas wh	ile
	traveling do					f the s	peed of	f the curr	ent is 4 k	mph, what	is
	the speed of (1) 12 kmph	, -	•			h					
	(3) 16 kmpk						ermine	d			
	(5) None of			()							
	. The area of the circle?	a circle	is sever	n times	its ci	rcumf	erence.	What is	s the circu	ımference	of
	(1) 616			(2) 1	32						
	(3) 88 (5) None of	these		(4) C	annot	be det	ermine	d			
	(2) 2.0110 01										



19. $12 \times 958 \div 17 = ?$

(1) 532

(2)676

(3) 765

(4) 483

(5) 806

Qs. 20-24. Study the table carefully to answer the following questions. Number of Cars (in thousands) Manufactured and sold by Six Companies over the years

Company	A		В		C		D		Е		F	
	Manu- Sold		Manu-	Sold	Manu-	Sold	Manu-	Sold	Manu-	Sold	Manu-	Sold
Year	factured		factured		factured		factured		factured		factured	
2000	2.58	1.96	1.98	1.62	1.97	1.53	2.46	2.11	2.35	2.16	1.88	1.50
2001	2.34	1.98	2.15	2.00	2.20	2.03	2.46	2.14	2.45	2.20	1.95	1.62
2002	2.85	2.05	2.35	1.99	2.18	1.87	2.55	2.23	2.60	2.13	2.25	1.93
2003	2.87	2.11	2.62	2.01	2.25	1.95	2.62	2.30	2.79	2.31	2.39	2.08
2004	2.91	2.22	2.71	2.12	2.68	2.32	2.71	2.19	2 .88	2.19	2.58	2.10
2005	2.94	2.25	2.84	2.15	2.86	2.36	2.76	2.28	2.90	2.32	2.67	2.30

20. What is the respective ratio of total number of cars manufactured by Companies A,B, and C together in the year 2001 to those manufactured by Companies D,E and F together in the year 2003?

(1) 164 : 217

(2) 223 : 260

(3) 260:223

(4) 217: 164

(5) None of these

21. What is the percentage of number of cars sold by Company D in the year 2002 to those manufactured by it in that year? (rounded off to two digits after decimal).

(1) 87.45

77.28

(3) 92.54

79 6

- (5) None of these
- 22. In which year were the maximum number of cars manufactured by all Companies together?

(1) 2001

(2) 2002

(3) 2003

(4) 2004

- (5) None of these
- 23. What is the **approximate** per cent increase in the number of cars sold by Company F in the year 2004 from the previous year?

(1) 13

(2) 0.9

(3) 2

(4) 8

- (5) 23
- 24. What is the total number of cars sold by Company C in all the year together?
 - (1) 120600

(2) 14205

(3) 12060

(4) 142050

(5) None of these

Q. 25-29. What should come in place of the question mark (?) in the following questions?

25. $8.88 \times 88.8 \times 88 = ?$

- (1) 68301.142
- (2) 79391.642
- (3) 65365.824
- (4) 76218.414
- (5) None of these

26. $1\frac{4}{7} + 1\frac{3}{5} + 1\frac{1}{3} = ?$

 $(1) \ 5\frac{47}{105}$

(3) $4\frac{53}{105}$

- 3.8 (2) (8 (4) 16
- (5) None of these

27. $\frac{9 \div 2 \times 27 \div 9}{18 \div 7.5 \times 5 \div 4} = ?$

(1) 4.5

(3) 2.5

- (5) None of these

28. ?% of 280+18% of 550 = 143.8

(1) 11

(3) 21

- (5) None of these

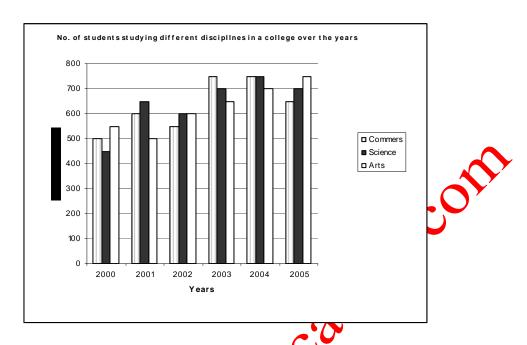
(1)81

(2) 3

(3)6561

- (4) 9
- (5) None of the

Qs. 30-34. Study the following graph carefully to answer the questions that follow:



- 30. What is the respective ratio of total number of students studying Commerce in the year 2000 and 2002 together to those studying Arts in the years 2003 and 2005 together?
 - (1) 3 : 4

(3) 4:3

- (5) None of these
- 31. What is the respective ratio of total number of students studying Arts, Science and Commerce in all the year together?
 - (1) 77:75:76
- (2) 76:75:77
- (3) 76:77:75
- (4) 75:77:76
- (5) None of these
- 32. Number of students studying Commerce in the year 2004 forms approximately what per cent of the total number of students studying Commerce in all the years together?

(2) 20

- (4) 33
- 33. What is the total number of students studying Arts in all the years together?
 - (1) 3700

(2) 2750

(3) 3500

- (4) 2550
- (5) None of these

- 34. Number of students studying Science in the year 2001 forms what per cent of total number of students studying all the disciplines together in that year? (rounded off to two digits after decimal)
 - (1) 46.24

(2) 23.51

(3) 37.14

- (4) 40.15
- (5) None of these
- Qs. 35-39. In the following questions, who equations I and II are given. You 30110 esedition.co have to solve both the equations and-

Give Answer if

(1) x>y

(3) x < y

- (5) x=y or the relationship cannot be determined
- 35. 1. 2x-15y=5
 - II. 6x 5y = -1
- 36. I. $x^2 = 1521$
 - II. $y = \sqrt{1521}$
- 37. I. $x^2 12x + 35 = 0$
 - II y2-9y+20=0
- 38. I. 4x + 3y = 16
 - II. 2x + 2y = 9

Qs. 40-44. Study the following table carefully to answer the questions that follow: Per cent rise in production of Six companies over the years.

Company	P	Q	R	S	T	U
Year						
2000	25	30	20	45	25	45
2001	20	55	45	50	45	40
2002	35	60	35	35	30	20
2003	40	30	25	30	55	58
2004	30	40	30	25	35	15
2005	45	45	40	20	45	25

40. V	What is the	he d	difference	in tl	ne pe	er cent	rise	in	production	of	Company	' U	in	the	year
2	2003 from	n the	e year 200	0?						(Y				

(1) 22

(2) 12

(3) 18

(4) 9

(5) None of these

41. If the production of Company T in the year 2000 was 3,55,000 units, what was its production in the year 2002?

(1) 6,69,175 units

(2) 5,14,251 units

(3) 7,21,345 units

(4) 4.22.895 units

(5) None of these

42. What is the per cent increase in per cent rise of production of Company R in the year 2001 from the previous year?

(1) 55

(2) 115

(3) 125

(4) 130

(5) None of thes

43. Which company has the highest average per cent rise in production over the years?

(1) U

(2) T

(3) S

(4) Q

(5) None of these

44. If the production of Company S in the year 2002 was 3,57,750 units, what was its production in the year 2001?

(1) 3,40,000 units

(2) 2,65,000 units

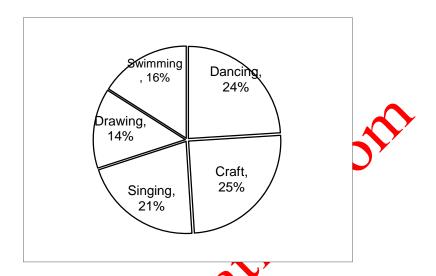
(3) 2,30,000 units

(4) 2,55,000 units

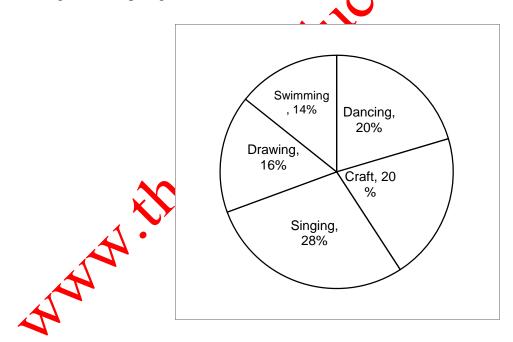
(5) None of these

Qs. 45-49. Study the pie- chart carefully to answer the following questions.

Percentage of students enrolled in different activities in a school N=3000



Percentage break- up of girls enrolled in these activities out of the total students N=1750



- 45. Number of girls enrolled in Dancing form what per cent of total number of students in the school? (rounded off to two digits after decimal)
 - (1) 12.35

(2) 14.12

(3) 11.67

- (4) 10.08
- (5) None of these
- 46. What is the respective ratio of number of girls enrolled in Swimming to the number of boys enrolled in Swimming?

	(1) 47:49	(2) 23:29
	(3) 29:23	(4) 49:47
	(5) None of these	
47.	What is the approximate percen	stage of boys in the school?
	(1) 34	(2) 56
	(3) 28	(4) 50
	(5) 42	
		\sim
48.	How many boys are enrolled in S	
	(1) 505	(2) 610
	(3) 485	(4) 420
	(5) None of these	~ •
49.	What is the total number of girls	enrolled in Swimming and Drawing together?
	(1) 480	(2) 525
	(3) 505	(4) 495
	(5) None of these	
		(2) 525 (4) 495
	•	
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Answers

1. (3) 2. (4) 3. (1) 4. (5) 5. (2) 6. (5) 7. (3) 8. (2) 9. (1) 10. (2)	11. (3) 12. (4) 13. (5) 14. (1) 15. (3) 16. (5) 17. (1) 18. (4) 19. (2) 20. (5)	21. (1) 22. (5) 23. (2) 24. (3) 25. (5) 26. (3) 27. (1) 28. (4) 29. (2) 30. (1)	31. (4) 32. (2) 33. (5) 34. (3) 35. (3) 36. (4) 37. (2) 38. (1) 39. (4) 40. (5)	41. (5) 42. (3) 43. (4) 44. (5) 45. (3) 46. (5) 47. (5) 48. (5) 49. (2)
	N. inors	29. (2) 30. (1)		
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