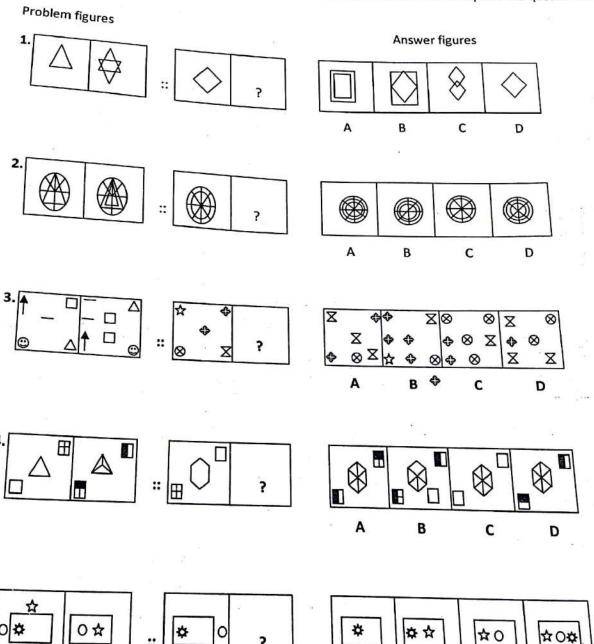
	Roll Number	TEST BOOKLET IX Test Booklet Seri	es/No. SS
5			2372
3	Name of the Candidate :		
	Signature of the Candidate :		
	Time : 2 Hours	N	laximum Marks : 90
	GENERAL I	NSTRUCTIONS FOR CANDID	ATE
		et of 14 pages as well as Answer S	
	of the Booklet and be sure the	hat they are in proper order and the	e code number of the
	Pest Booklet and Answer Sh	eet is same. In case of a defective	Test Booklet, report
	to your Invigilator and get i	t replaced.	/
	2. Answer are to be indicated in 3. Use English Letters only to	write on Side-2 of the Answer Sh	eet.
	4. Use Blue / Black Ballpoint	Pen only to write answer on the	Answer Sheet. Use of
900	Pencil is strictly prohibited	I. \ /	
	The State of the s	Questions in four Sections:	
253	(I) Mental Ability	Question Nos. 1-26)	
	(II) Mathematics (III) Science	(Question Nos. 21 (45) (Question Nos. 46-70)	6
000	(IV) Language	(Question Nos. 71-90)	
	6. All guestions are to be attem	pted. Each question carries one	mark.
	7. Do not use white/correction	fluid on the Answer Sheet.	
	8. Overwriting, cutting and eras	sing on the Answer Sheet is not	allowed. Do not make
	Any stray mark in the Answer	er Sheet.	
900	9. No changes in the answer on	ce written is allowed.	ve to qualify in each
	10. You must attempt questions	of each Section because you na	ve to quality in each
993/	Section separately. 11 For every question, propable	Assure hearing Letters A R	CDF are given
	11 For every question, propable	ect. After selecting the correct	answer you should
	Only one out of these is corre	in the box given against each	question in the Answer
200	Write the alphabet in English	or C of Question No. 37 is corr	ect you please write like
/e)(e		er Con Question 140. 37 is com	coi, you proud
100	this:	37 C	
	//	37. 6	
	100 15 1 // 100	the marked space in question	booklet
000	12. Rough work may be done in	me markeu space m question	Oddition
010	13.A bell will be rang after ever	y 50 minutes.	
100			

Mental ability

Directions :-for Q1 To Q5

The second figure in the first part of problem figures bears certain relationship to the first figure. Similarly, one of the figure of the second Similarly, one of the figures of answer figure bears the same relation to the first figure of the second part. You have to select a second second to the figure bears the same relation to the first figure of the second part. You have to select a figure from the set of answer figures which would replace the question mark (?).



A

В

*

C

D

Directions (Q.No.6-10)

In each of the following problem, Choose the alternative figure in which the problem figure is embedded.

Problem figure



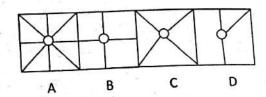


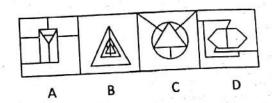


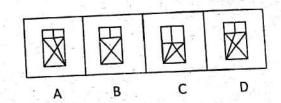


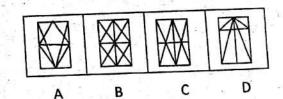


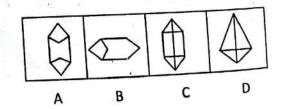
Answer figure











Direction:-

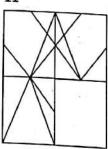
In questions 16 to 20 find out which of the answer figures (A), (B), (C), and (D)complete the figure.

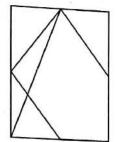
Problem figure

Answer figures

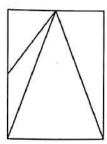
11

3

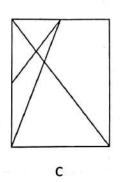


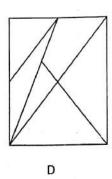


Α

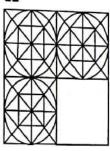


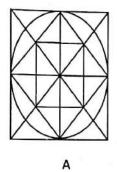
В

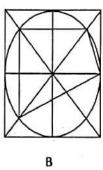


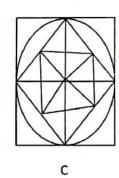


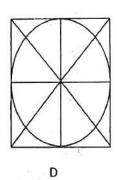
12



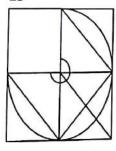


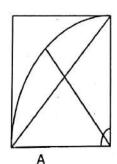


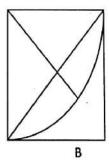


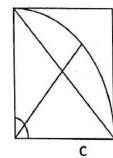


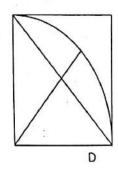
13



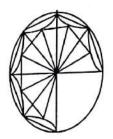




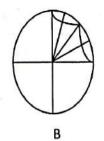


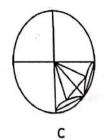


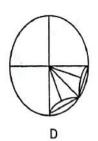
14

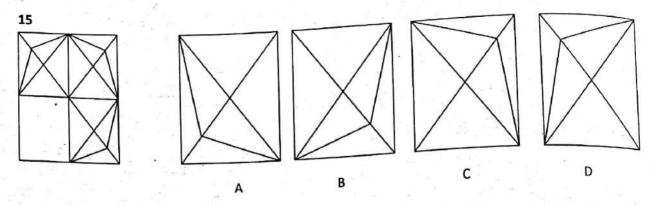






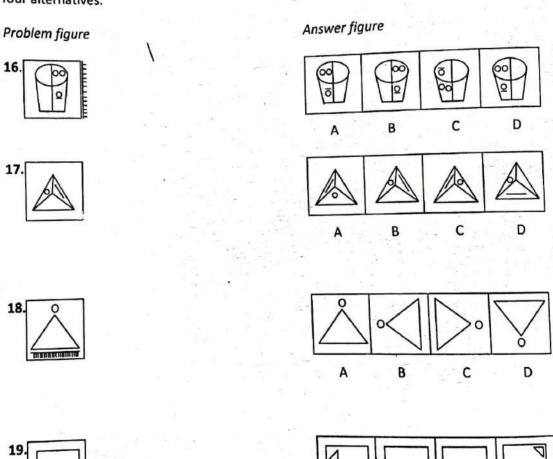




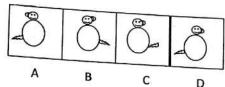


Directions (Q.No.16-20).

In each of the following questions choose the correct mirror image of the figure given from amongst the four alternatives.







Mathematics (Section)

Direction:-

Four every question, four probable answers are given only one out of these is correct. You have to select the correct answer in the box against the number corresponding to the question in the answer sheet.

21. The additive inverse of $\frac{-a}{b}$ is:

 $A \cdot \frac{a}{b}$

D. $\frac{-a}{b}$

22. The reciprocal of $\frac{3}{4} \div 3$ will be

A.4

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

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

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

23. If 18-3p = 6p + 9 then p is equal to:

A. 9

B. 6

C.1

D. 3

24. In a rhombus ABCD the diagonals intersects each other at o, if AB= 10cm, diagonal BD=16cm, then the length of the diagonal AC will be:

A. 6cm

B. 16cm

C. 8cm

D. 12cm

25. If a,b,c,d and e are five consecutive natural numbers a<b<c<d<e and a number is drawn at a random, then the probability that the number should be less than c.

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

 $B.\frac{2}{\pi}$

26. For the data 10, 8, 11, 6, 10, 8, 6, 7, 6 which one of the following is correct?

A. mean = median = mode

B. mode<median<mean

C. mean = median >mode

D. mode >mean>median

27. What is the of $\sqrt{\frac{x+2y}{8y}}$ if x= 5.6 and y= 3.1 correct to 2 decimal places?

A. 4.66

B. 2.65

C. 2.83

D. 0.69

28. The value of $\frac{0.0000000000000000000000000000000000$	16/ ₄ is:		
A. 0.63	B.0.02	C. 0.45	D. none of these
29. The value of 6m	$n^2 \times \frac{1}{3m}$ is:		
A. 18mn	B.2m ²	O	D. $18m^2n^2$
30. Which of the fol	lowing is the number of	edges of dodecahedron, i	f it has 12 faces and 20 vertices?
A. 32	B. 26	C. 28	D. 30
31. Five cubes each	of edge of 5cm, are pla	ced adjacent to each othe	r. The volume of the new solid
formed will be: A. 125cm ³	B. 375 <i>cm</i> ³	C. 525 <i>cm</i> ³	D.625cm ³
A. 123cm		toral surface area of a cylin	der whose radius is 20cm and
height 60 cm ,is	al surface area to the lat	erar suriace	
A.4:3	B. 2:1	C. 3:2	D. 5:3
	naths of the sides of a t	riangle that has perimeter	of 24cm?
A Sen Sem 12cm	B. 7cm,7cm,10c	m C. 3cm,8cm,13c	m D. 4cm,5cm,15cm
A. demijorinje	ingle is Sunits more th	an h, its height. What exp	ression represents its area?
34. The base of a tr	langle is sumes more	- 1, 0, 2)	D. h(h+3)
A. $\frac{1}{2}$ h(h-3)	B. h(h-3)	C. $\frac{1}{2}$ h(h+3)	5.,,(.,, 0,
25 The standard fo	orm of 0.00000037 is:		
3.7× 10 ⁻⁶	B.3.7	c. 3.7× 10 ⁻⁵	D. 3.7× 10 ⁻⁷
g ' e o ' '*	1		
36 8 men can do pi	ece of work in 10 days.	How many long will 10 n	nen take?
		C. 7days	D.6days
A. 8days	B. 12 days	C. / Gara	
37. The point (3,0)	lie on:		
A. y-axis	B. x-axis	C. both axis	D. origon

38. Which of the following statement is correct?

A. all rectangles are squares

B. all kites are rhombuses.

C. all rhombuses are parallelograms.

D. all trapeziums are squares.

39. The difference between simple interest and compound interest on certain sum of money for 2 years

A.Rs 13500

B.Rs 15200

C.Rs 11500

D.Rs 12500

40. If x:y = 5:2, then (8x + 9y) : (8x+2y)

A. 22:29

B. 26:61

C. 61:26

D. 29:22

41. If $3^{x-1} + 3^{x+1} = 90$, then x is equal to:

A. 1

B. 2

C. 3

D. 0

42. A shopkeeper prefers to sell his goods at the cost price but uses a weight of 800gm instead of 1kg weight. He earns a profit of:

A. 2%

B. 25%

C. 8%

D. 20%

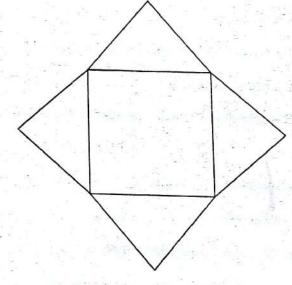
43. Which sold would be formed by the given net?

A. square pyramid.

B. square pyramid

C .triangular r prism.

D. square prism.



44. The sum of eterior angles of polygon of sides 7 is:

A. 360°

- $B.180^{0}$
- $C.360^{0}$
- $D.900^{\circ}$

45. Which of the following is perfect cube?

A. 1525

- B. 1728
- C. 1458
- D. 3993

Section (Science)

Direction:- For every question four probable answers are given. Only one out of these is correct. You have to select the correct answer and write the answer in the box against the number corresponding to the question in the answer sheet.

	46. Ditches made betwe	tween the two rows of a crop are called:			×	
	A. furrow	B. canal	C. line	D. none o	f them	
	47. Microorganism which	47. Microorganism which has the ability to fix nitrogen is:				
	A. virus	B. euglena	C. amoeba	D. rhizob	ium	
	48. Lens coatings are ma	de of:				
	A. Bakelite	B. Teflon	C. oil	D. gree	eze	
	49. Which of the following	ng is the metalloid?				
	A. calcium	B. aluminium	C . arsenic	D. cop	per	
	50. The product of coal which is thick black liquid having an unpleasant smell is:					
	A. petroleum	B. bitumen	C. lignite	D. co	oal tar	
	51. The example of suspe	ended particulate matte	er is:			
	A. un burnt carbon	B. un burnt oxygen	C. un burnt	nitrogen	D. none of the	se
	52. All the plants found i	n the particular area ar	e termed as:			
	A. funa	B. flora	C. trees	D	. garden	
	53. Plant cells does not h	ave:				
	A. chloroplast	B. cell wall	C. lysosom	e	D. vacuoles	
	54. Amoeba reproduces t	through:				
	A. tertiary fusion	B. budding	C. fertiliza	tion	D. binary fission	n
	55. Young one of frog is c	alled:				
,	A. nymph	B.larva	C. caterpil	lar	D. tadpole	
5	56. Suicidal bags of the ce	ells are:				
		B. lysosomes	C. chloro	plast	D. vacuoles	

B. lysosomes

A. mitochondria

57. Genes are present	on:	- 1812 18	
A. nucleoplasm			
58. Secretion of endoc	B. nuclear membrane	C. chromosomes	D. cytoplasm
A. normones	B. enzymes		Para Transfer
59. An example of cont	tact force is:	C. catalyst	D. sugars
A. gravitational force	B. muscular force	C. electric force	D. magnatic force
60. The force divided b	y an area on which it acts is calle	s. ciccult force	D. magnetic force
A. pressure	B. weight	C. thrust	D. speed
61. The use of lubricant	ts make the surface :		
A. rough	B. smooth	C. very rough	D. hard
62. The maximum force	of friction when the body is just	t beginning to move is k	nown as:
A. static friction	B. rolling friction	C. limiting friction	
63. Sound can not trave	l through:		
A. air	B. water	C. steel	D. vacuum
64. the number of vibra	tion per second of a body is call	ed:	
A. frequency	B. time period	C. amplitude	D. none of these
65. The method of purify	ying metals by passing electricit	y is called:	
A. electrolysis	B. electroplating	C. electrorefinig	D. none of these
66. The object to be elec	troplated is made:		
A. allouc	B. cathode	C. cathode or ar	
67. Electric discharge pro	duced between the clouds or	clouds and the ground	is called:
A. charge	B. thunder	C. earth quake	D. lighting
	ue to loss of electron is called:		
A. neutral charge	B. negative charge	C. positive charge	D. none of these

69. An incident ray makes an angle of 30^{0} with a plane mirror. Then the angle of reflection is: $D.150^{\circ}$ B. 60° $A.30^{0}$

70. The brightest planet in the sky is:

C. mercury B. mars A. Venus

D. Jupiter

Language (Section)

There are two passages in this section followed by questions, Read each passage carefully and answer the question that follow. For each question four probable options have been given only one is correct. You are required to select the correct answer and place it into given box in front of each question.

Passage-1

The retina of our eye is back part of the eye. It contains certain types of cells called photoreceptors. The photoreceptors are of two types' rod cells and cone cells. Rod cells are very sensitive to light Changes, shapes and movement. In the dim light we see with the help of rod cells. Thus rod cells are almost entirely responsible for night vision. Nocturnal animals like bats, gal ago etc. have their retina packed with rod cells. Hence they can see in the dark. There are about 120million rod cells in our eyes. The Cone Cells are not as sensitive to light as rod cells. They are most sensitive to one of the three different colours i.e.red, green or blue. Signals from the cone cells are sent to the brain which then translate these messages into perception of colour. Cone cells work only in bright light. That is why we Cannot see different colour in dark. Human eye has about 6 million cone cells in its retina.

71. The retina contains:

B. two types of cells. A. three types of cells.

D. five types of cells C. four types of cells

72. The number rod cells in our eyes are:

D. 60million C. 120million B. 12million A. 6million

73. Which of the following cells is sensitive to colour?

D. none of these C. both of these B. cone cells A. rod cells

74. Which of the following statement is false?

A.our retina contains photoreceptors.

C. nocturnal animals have more number of rod cells.

B. only cone cells are photoreceptors.D. cone cells are colour sensitive.

75. We cannot see different colours in dark because:

A. rod cells do not work in dark.

B. rod cells and cone cells work only in light.

C. cone cells work only in bright light.

D. all of these.

Passage-2

Mangoes grow on trees. Mango trees are ever green trees. A mango tree can grow up to 60 feet.

Mango trees need hot, dry periods to give a good crop. In India you get best varieties in summer.

The mango tree bears fruit in four to six years after planting. The fruit can be golden yellow, green Or deep red. The flesh of the fruit is usually deep orange yellow in colour. It is sweet and juicy With most delicious flavor. The fruit has a single large seed inside it.

When spring comes, the mango tree bursts into flower. The pale yellow blossoms cover the branches Of the trees. They look so pretty in early summer, tiny raw mangoes appear. They are dark green and Very sour. AS it grows hotter, the mangoes begin to ripen. When it gets really hot the mangoes ripen Into golden yellow juicy fruits.

76. Mango is called king of the fruits because:

A. It is beautiful and delicious.

B. It is ever green and tall.

C. It is fleshy and deep red.

D. It takes four years to grow.

77. The best mangoes are available in:

A. early summer

B. winter

· C. summer

D. spring

78. A mango tree starts bearing fruit:

A. when it has grown 60 feet.

B. in four to six years.

c. during monsoon.

D. when it is hot.

79. The flesh of the ri	pe mango fruit is:	_ a		
A. pale yellow	B. green	C. deep red	D. orange yellow	
80. Antonym of the w	ord, 'ripe' is:		20	
A. raw	B. fresh	C. golden	D. juicy	
		E 22		
Direction:			36	
Select the most approbefore each question	opriate alternative in English numbe	in each of the follow rs.	ving questions and put int	o the box placed
81. The old man wall	ks slowly. Word slo	owly is:		
A. noun	B. adjective	C. adverb	D. verb	
82. Nisna is absent	school to	day.		
A. for	B. from	C. in	D. at	
83. Use correct tens	e of the verb watc	h. SheT.\	/. since evening.	· ·
A. is watching	B. was Watching	C. has been W	atching D. none of the	se
20 P. J.	8 12		* * -	
84. Stay here				
A. imperative sente	nce B. assertive	e Sentence C. excl	amatory Sentence D.int	errogative sentence
85. The group of bird	ds			
A. heard	B. flock	C.	bunch D. none	of these
86. That book in min	e. Word 'THA T' IS	5		
A. demonstrative A	Adjective B. R	Relative Pronoun C	. demonstrative Pronou	n D. reflexive Pronoun
87. The plural of th	ief is	<i>y</i>		
A. thiefs		thiefes D thie	/es	
as The familiane of	Milkman is			12.00

C. milkmaid

B. milkwomen

A. milkwoman

D None of these

89. ____cow is useful animal.

A. a

B. an C. The D. None of these

90. The antonym of word deep is:

A. shallow B. high C. low D. none of these