NATIONAL MEANS CUM MERIT SCHOLARSHIP SCHEME EXAMINATION 2025 KEY FOR MAT

SL. NO.	KEY	SL. NO.	KEY
1	4	46	4
2	3	47	1
3	1	48	1
4	2	49	2
5	2	50	4
6	1	51	3
7	4	52	3
8	3	53	3
9	1	54	4
10	3	55	3
11	4	56	2
12	2	57	1
13	2	58	4
14	4	59	1
15	2	60	2
16	3	61	3
17	2	62	4
18	4	63	1
19	2	64	1
20	3	65	3
21	1	66	2
22	2	67	4
23	4	68	4
24	3	69	4
25	2	70	1
26	2	71	3
27	4	72	3
28	3	73	2
29	4	74	1
30	1	75	1
31	1	76	4
32	2	77	3
33	4	78	1
34	2	79	1
35	4	80	2
36	3	81	4
37	4	82	2
38	1	83	1
39	3	84	3
40	3	85	4
41	4	86	1
42	2	87	4
43	1	88	1
44	4	89	3
45	3	90	2

NATIONAL MEANS CUM MERIT SCHOLARSHIP SCHEME EXAMINATION 2025 KEY FOR SAT

SL. NO.	KEY	SL. NO.	KEY	SL. NO.	KEY
1	1	36	2	71	2
2	3	37	4	72	1
3	4	38	3	73	4
4	1	39	3	74	4
5	1	40	2	75	4
6	2	41	3	76	3
7	1	42	2	77	4
8	4	43	4	78	2
9	1	44	4	79	4
10	1	45	1	80	1
11	3	46	4	81	1
12	2	47	4	82	3
13	2	48	4	83	1
14	4	49	1	84	4
15	1	50	2	85	2
16	3	51	2	86	1
17	3	52	1	87	2
18	1	53	2	88	1
19	3	54	2	89	2
20	2	55	4	90	4
21	3	56	4		
22	4	57	2		
23	4	58	3	Ī	
24	3	59	4		
25	2	60	2		
26	2	61	3		
27	1	62	2		
28	2	63	3		
29	3	64	1		
30	3	65	3		
31	3	66	1	ļ	
32	1	67	4		
33	1	68	2		
34	1	69	1	ļ	
35	4	70	1		



GOVERNMENT OF PUDUCHERRY DIRECTORATE OF SCHOOL EDUCATION

QUESTION BOOKLET

MARCH 2025

PART – I MENTAL ABILITY TEST

Centre Code No.

Register No.

INSTRUCTIONS

- 1 Answer all the questions. All questions carry one mark each
- 2. Since all questions are compulsory, do not try to read through the Whole question paper before beginning to answer.
- 3. Begin with the first question and keep on trying one question after another till you finish all the question.
- 4. If you do not know the answer to any question, do not spend much time on it but pass on to the next one. If time permits, you can come back to the questions which you have left in the first instance and try them again.
- 5. Since the time allotted to this question paper is very limited, you should make the best use of it by not spending too much time on any one question.
- 6. Separate sheets have been provided for rough work in the Question Booklet itself.
- 7. The answers should be marked on a separate answer sheet provided in the Examination Hall.
- 8. The answer sheet has two parts corresponding to Part I and Part –II of the Test.
- 9. Answer to each question is to be indicated by shading the number of the correct choice in the answer sheet with black ballpoint pen from amongst the ones given for the corresponding question in the test booklet.

PART I MENTAL ABILITY TEST – MARCH 2025

Duration: 90 minutes

Max Marks: 90

(Qns. 1 to 5)

Directions: In each question, the numbers / letters are arranged in a sequence based on a certain principle. Select the answer from the four alternatives given under each sequence to complete the series.

1.	0, 1, 1, 2, 4, 7, 13, 24,	44,		
	(1) 64	(2) 68	(3) 75	(4) 81
2.	12, 32,72,152,,6	32		
	(1) 254	(2) 270	(3) 312	(4) 354
3.	4, 6, 8, 15, 16, 24, 32,	33, 64,		
	(1) 42	(2) 48	(3) 55	(4) 64
4.	B, E, J, Q, ?.			
	(1) X	(2) Y	(3) Z	(4) V
5.	A, C, F, J, O ?			
	(1) T	(2) U	(3) V	(4) W

(Qns. 6 to 10)

•

Directions: Choose the most suitable answer from the given four alternatives.

6. If	f 6x43 - 19y4 = 463	39, then the value of x	is	
((1) 5	(2) 6	(3) 7	(4) 9
7. If	f vowels are left out	, which letter would be	e the 13 th consonant?	
((1) M	(2) N	(3) P	(4) Q
8. R	akesh is eighth in a	queue from either end	l. How many people a	re there in the queue?
((1) 13	(2) 14	(3) 15	(4) 16
9. Tł	he unit digit in (364	$^{102} + (364)^{103}$ is		
((1) 0	(2) 2	(3) 4	(4) 6
10. a	The sum of first 6 o ascending order is	dd positioned letters i	n complete listing of a	ll 26 alphabets in

(1) 16 (2) 25 (3) 36 (4) 48

(Qns. 11 - 12)

Directions: In the following questions three out of the four alternatives are same in a certain way and so form a group. Find the odd one that does not belong to the group.

11. Which one of the following words will come at second place in the Dictionary?

(1) Acidity	(2) Acupuncture	(3) Accident	(4) Accumulate

- 12. Which one of the following words will Come at fourth place in the Dictionary?
 - (1) Raise (2) Rain (3) Rapport (4) Rapid

(Qns. 13 - 17)

Directions: Each letter of the alphabet from Z to A bas been given a value from 1 to 26 serially. Solve the questions on the basis of value of words.

13. Which word has the maximum value at most?

(1) Mouth	(2) Table	(3) Tanker	(4) Thank
• •	• /	. ,	• •

14. Select the Correct Statement?

(1) ROOT +Y is STEM.	(2) STEM - Dis LEAF.
(3) LEAF +Tis FRUIT	(4) FRUIT -Q is STEM

15. Which words have the equivalent Value?

(1) FEAR : ACID (2) BASE : THANK (3) WATER : SEAT (4) SOUR: SALT

- 16. Which equation is Correct?
 (1) S+J=A (2) U+J=D (3) V+J=E (4) Y+J=1
 17. If ROOT = 40, LEAF = 84, then FRUIT = ?.
 - (1) 54 (2) 61 (3) 64 (4) 67

(Qns. 18 - 19)

Directions: Which term will come in the place of question mark?

18. EDOPRS	SRODE EDRS ?		
(1) EDR	(2) SRD	(3) DRS	(4) SRE
19. A1A, D4E, G7	νΙ, ? , M13U		
(1) J 10 O	(2) J 10 Q	(3) P 10 Q	(4) G 10 P
20. A die is thrown	24 times. How many tir	nes do you expect the	number '4' to come up?
(1) 6 times	(2) 24 times	(3) 4 times	(4) 12 times

(Qns. 21 to 25)

Directions: Choose the correct answer from the given options.

21. Assertion (A): James Watt invented the steam engine.

Reason (R): It was invented to pump out the water from the flooded mines.

- (1) Both A and R are true and R is the correct explanation of A.
- (2) Both A and R are true, but R is not the correct explanation of A.
- (3) A is true, but R is false.
- (4) A is false, but R is true.

22. Statement 1: A is bigger than B but shorter than C

Statement 2: D is smaller than C and bigger than A

Statement 3: B is greater than D

If statement 1 and statement 2 are true, statement 3 will be -

- (1) True (2) False (3) Uncertain (4) None of the above
- 23. What is Geeta's rank in the class?
 - I. There are 30 students in the class.
 - II. There are 10 students who scored less than Geeta.
 - (1) Statement I alone is sufficient, but statement II alone is not sufficient
 - (2) Statement II alone is sufficient, but statement I alone is not sufficient
 - (3) Neither I nor II is sufficient
 - (4) Both I and II are needed
- 24. If you are a fitness walker, you don't need to go to a health gym. You also don't need any fitness equipment for workout. All you need is a pair of comfortable athletic shoes.

This paragraph supports which of the following statements;

- (1) Fitness walking is better than weight lifting.
- (2) Walking outdoors provides more health benefits than walking indoors.
- (3) Fitness walking is an effective and convenient form of exercise.
- (4) Poorly designed shoes can cause foot injuries.

25. Statements:

- I) All heroes are villains.
- II) All villains are zeros.
- III) Some heroes are jokers.

Conclusion:

i) Some Jokers are heroes

ii) Some villains are jokers

iii) Some zeros are villains

(1) Only I, II follow.	(2) All I, II, III follows
(3) Only I, III follows.	(4) Only I, II follows.

(Qns. 26 - 35)

Directions: Choose the correct answer from the given options.

26. If PINK is coded as 1691411, then RED will be coded as -

(1) 1853 (2) 1854 (3) 1954 (4) 1963

27. In a certain code, NAGPUR is coded as OBHQVS, then BENGALURU will be coded as

(1) DGPICMVSV (2) CROHBMVTV (3) DGPICNWTV (4) CFOHBMVSV

28. If GOLD is coded as HOME and COME is coded as DONE then SONS can be coded as ------

(1) TTOT (2) TOOS (3) TOOT (4) TONT

29. If SALVAR is coded 123456 and SAINT is coded as 12789, then SALIVA will be coded as

(1) 127342 (2) 127324 (3) 123724 (4) 123742

30. If ZEBRA is coded as 1-22-25-9-26, WOLF is coded as 4-12-15-21, then RABBIT is coded as -----

(1) 9-26-25-25-18-7 (2) 18-1-2-2-9-21 (3) 18-1-2-25-18-7 (4) 9-26-2-2-18-7

31. In a certain code RAIN is written as 8\$% 6 and MORE is written as 7#8@. How is REMAIN written in that code?

(1) 8@7%6 (2) 7@#%6 (3) #@&%6 (4) #@7%6

- 32. How many such digits are there in the number 57692483, which after rearranging the digits of the number in descending order from left to right will remain at the same position as before the rearrangement?
 - (1) None (2) One (3) Two (4) Three
- 33. Five friends were travelling by train between stations A and B. Each one gets down at a different station one after the other. Nitin gets down before Lata and Shikha but not before Sunil. Anil is not the last to get down. Who got down first from the train?

(1) Sunil (2) Nitin (3) Shikha (4) Cannot be determined

- 34. If it is possible to make only one meaningful word from the first, the fifth, the seventh, the eighth and the eleventh letters of the word DEPARTMENTAL, first letter of the word is your answer.
 - (1) A (2) D (3) R (4) None of these
- 35. If a means "walk", B means "stand", y means "run" and 6 means "sit", how many times does the following sequence of commands require sitting?

(1) 4 (2) 3 (3) 5 (4) 6

(Qns. 36 - 37)

Direction: In each of the following questions, different positions of a dice are given. Answer the questions that follow.



(Qns. 38 - 40)

Direction: Three different positions of a dice are given. Observe the positions Answer the questions that follow.



- 38. Find the number of dots on the face opposite to the face with one dot?(1) 2(2) 3(3) 4(4) 5
- 39. Find the number of dots on the face opposite to the face with six dots?(1) 5(2) 4(3) 3(4) 2
- 40. Which of the following figures has a line of symmetry?



Directions: identify the figure based on the continuation of the previous figures. 41.



(Qns. 46 -51)

Directions: Choose the box that is similar to the box formed from the given sheet of paper (X).

46.







47.

(1)







48.







0





49.





(3)





51. How many dots lie opposite the face having five dots, when the given figure is folded to form a Cube?



(Qns. 52 - 53)

Directions: Figure A, B, C and D constitute the problem set while figure 1, 2, 3 and 4 constitute the answer set. There is a definite relationship between figures A and B. Establish a similar relationship between figure C and D by choosing a suitable figure (D) from the answer set

52. Which of the following figures complete the second pair in the same way as the first pair?



53. Which of the following figures complete the second pair in the same way as the first pair?



(Qns. 54 - 58)

Directions: Each of the following questions consist of problem figures followed by answer figures. Select a figure from amongst the answer figures which will continue the same series or pattern as established by the problem figures.



(Qns. 59-63)

Directions: In each of the following, choose the correct mirror image amongst the four alternatives.





(Qns. 64 - 70) *Directions:* Choose the correct answer from the given options

64. What is the missing figure in the given series?



65. Count the number of cubes in the given figure.



66. How many squares in the given figure?



67. How many squares in the given figure?



68. Which letter should be in place of the question mark?



69. If day after tomorrow is Friday, what day was three days before yesterday?

	(1) Sunday	(2) Friday	(3) Thursday	(4) Saturday
--	------------	------------	--------------	--------------

70. Which letter replaces the question mark?

R = 81	Y = 52		
X = 42	? = 91		
(1) S	(2) Q	(3) O	(4) L

(Qns.: 71 - 76)

Directions: All the faces of wooden cube with 8 cm length are painted in the same colour. This cube has been cut into small cubes with a 2 cm length. Answer the following questions.

71. How many smal	l cubes are to be cut ou	ıt?	
(1) 4	(2) 8	(3) 64	(4) 32
72. How many times	s that cube is cut out?		
(1) Four times	(2) Eight times	(3) Nine times	(4) Twelve times
73. How many smal	l cubes will be there w	hose only one face is a	colored?
(1) 12	(2) 24	(3) 8	(4) 32
74. How many smal	l cubes will be there w	hose no face is colour	ed?
(1) 8	(2) 12	(3) 32	(4) 16
75. How many smal	l cubes will be there w	hose two faces are col	oured?
(1) 24	(2) 8	(3) 12	(4) 32
76. How many smal	l cubes will be there w	hose three faces are co	oloured?
(1) 12	(2) 16	(3) 24	(4) 8

(Qns.: 77-81)

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Directions: In the following Questions, answers are based on the diagram given below, where the circle represents advocates the triangle represents doctors the rectangle represents players.



- 77. Which number represents players who are neither advocates *nor* doctors? (1) 10 (2) 8 (3) 6 (4) 5
- 78. Which number represents advocates who are also players and doctors?(1) 7(2) 10(3) 5(4) 9
- 79. Which number represents advocates who are players but *not* doctors?(1) 10(2) 7(3) 8(4) 9
- 80. Which number represents doctors who are advocates but *not* players?(1) 7(2) 8(3) 9(4) 5
- 81. Which number represents doctors who are neither players *nor* advocates? (1) 6 (2) 9 (3) 8 (4) 5

(Qns. 82 - 85)

Directions: Choose the correct answer from the given options

- 82. A clock shows time as 4.45 p.m. What is the time shown by the mirror image of the clock?
 - (1) 6.45 (2) 8.15 (3) 7.45 (4) 7.15
- 83. When the 45 students of a class were asked to stand in a line in the playground Aiswarya was 20th from the left in the line and Vaishnavi was 32nd from the right of the line. Then how many students are standing between Aiswarya and Vaishnavi?
 - (1) 5 (2) 2 (3) 4 (4) 3
- 84. In a month of 31 days third Monday falls on 15th. What will be the last day of the month?(1) Fifth Friday (2) Fourth Friday (3) Fifth Wednesday (4) Fourth Saturday
- 85. A man travelled westwards 4 Kms, turned left and travelled 4 Kms turned right and travelled 8 Kms. He then travelled North 4 Kms. How far was the man from the starting point now?
 - (1) 4 Kms (2) 6 Kms (3) 8 Kms (4) 12 Kms

(Qns. 86 to 90)

Directions: In the following questions, find the missing number, if a certain rule is followed either row-wise or column -wise.

86			
00.	44	25	36
	64	49	81
	100	??	??
(1) 169 a	& 81	(2)	67 & 1
87.	11	7	36
	18	14	64
	17	9	?
(1) 81		(2)	85
88.	1	9	9
	2	12	• 14
	3	117	105
(1) 7		(2)	8
(1) /		(2)	0
89.	44	14	48
	12	51	30
	56	??	78
(1) 48		(2)	58
90.	48	28	38
	28	35	23
	30	9 9	37
			14
(1) /		(2)	14

Rough Work only



GOVERNMENT OF PUDUCHERRY DIRECTORATE OF SCHOOL EDUCATION

QUESTION BOOKLET

MARCH 2025

PART – II SCHOLASTIC APTITUDE TEST

Centre Code No.

Register No.

8021

INSTRUCTIONS

- 1. Answer all the questions. All questions carry one mark each.
- 2. Since all questions are compulsory, do not try to read through the whole question paper before beginning to answer.
- 3. Begin with the first question and keep on trying one question after another till you finish all the question.
- 4. If you do not know the answer to any question, do not spend much time on it but pass on to the next one. If time permits, you can come back to the questions which you have left in the first instance and try them again.
- 5. Since the time allotted to this question paper is very limited, you should make the best use of it by not spending too much time on any one question.
- 6. Separate sheets have been provided for rough work in the Question Booklet itself.
- 7. The answers should be marked on a separate answer sheet provided in the Examination Hall.
- 8. The answer sheet has two parts corresponding to Part I and Part –II of the Test.
- 9. Answer to each question is to be indicated by shading the number of the correct choice in the answer sheet with black ballpoint pen from amongst the ones given for the corresponding question in the test booklet.

PART II SCHOLASTIC APTITUDE TEST – MARCH 2025

Duration: 90 minutes

Max Marks: 90

SCIENCE

- 1. Which statement is / are true?
 - a) The ball bearings used in bicycle is an example for Rolling Friction.
 - b) In science, the gases and liquids are named as fluids.
 - c) Vehicles have treaded tyres to reduce friction.
 - d) Sliding friction is slightly larger than the Static friction
 - (1) a) and b) are correct (2) a) and d) are correct
 - (3) a), b) and c) are correct (4) c) and d) are correct

2. If a coin is placed between two plane mirrors making 60° angle with each other, then how many images of coins are formed?

- (1) 3 (2) 4 (3) 5 (4) 6
- 3. The person who represented India on Braille problems in UNESCO is
 - (1) Ravindra Jain (2) Diwakar (3) Helen A. Keller (4) Lal Advani

4. The motion of seconds hand in a clock is

- (1) Oscillatory (2) non-uniform (3) uniform (4) rectilinear
- 5. Match the following;
 - i) Hans Christian Oersted-p) Coloured Disc appearing white
 - ii) Newtons's Disc -q) Liberation of oxygen and hydrogen by electrodes
 - iii) Benjamin Franklin -r) Magnets' deflection by current
 - iv) William Nicholson s) lighting phenonomena
 - (1) i)-r), ii)-p), iii)-s), iv)-q) (2) i)-q), ii)-p), iii)-s), iv)-r)
 - (3) i)-s), ii)-p), iii)-r), iv)-q (4) i)-q), ii)-p), iii)-r), iv)-s)

6. Chromium plating is done in

(1) Iron bridges (2) Kitchen gas burners (3) Gold ornaments (4) Food parcel foil

- 7. The Pitch of the sound is determined by its
 - (1) frequency (2) speed (3) amplitude (4) loudness

_		
8 Two objects repels each other. This repulsion could be due to	8021	
(1) Frictional force only (2) Electrostatic force only		
(3) Magnetic force only (4) Fither an Electrostatic force or a Magnet	tic force	2
(5) Magnetie force only (4) Entrier an Electrostatic force of a Magnet		,
9. Consider the terms given below		
(i) Tsunami (ii) Landslide (iii) Floods (iv) Lightning		
Earthquakes can cause		
(1) (i), (ii) and (iii) (2) (ii) and (iv) (3) (ii), (iii) and (iv) (4) (ii)	ii) and (iv)
10. The conversion of dead vegetation into coal is		
(1) Carbonisation (2) Calcification (3) Condensation (4) C	anonisa	atior
11 Desert plants have spine-like leaves to reduce loss of water by		
(1) transportation (2) transposition (3) transpiration (4) tr	ransmis	sion
	. 411511115	51011
12 lives in the roots of plants like gram, peas, moong		
(1) Agrobacterium (2) Rhizobium (3) streptomyces (4) Bacillu	us subti	lis
13. Match Column I and Column II and select the correct matching:		
Column I Column II		
i) Edward Jenner - p) Pencillin		
ii) Louis Pasteur - q) Anthrax		
iii) Alexander Fleming - r) Fermentation		
iv) Robert Koch - s) Vaccine		
(1) i)-q), ii)-p), iii)-r), iv)-s) (2) i)-s), ii)-r), iii)-p), iv)-q)		
(3) i)-p), ii)-q), iii)-s), iv)-r) (4) i)-q), ii)-r), iii)-p), iv)-s)		
14. Which among the following is not an endocrine gland		
(1) Pancreas (2) Pituitary (3) Thyroid (4) Liver		
15 The organism with tracheal system is		
(1) ant (2) Book lice (3) Mealy bug (4) scale insect	t	
(1) and (2) DOOR net (0) meany bug (7) scale misee	L	
16. Which among the following is not a fungi		
(1) Aspergillus (2) Bread mould (3) Spirogyra (4) P	enicilliu	ım

17. Which among the following reproduce by asexual reproduction					
(1) frog	(2) starfish	(3) Fern	(4) Rose		
18. Asian lions ar	e found only in				
(1) India	(2) America	(3) China	(4) Sing	apore	
19. Match the foll	owing				
i. Charge	- P. Seismic	Zone			
ii. Lightning	- Q. Electros	cope			
iii. Earthqual	ke - R. Richter S	Scale			
iv. Seismogra	ıph - S. Thunder	· Storm.			
(1) i – R, ii – I	P, iii – S, iv – Q	(2) i – S, ii –	- Q, iii – R	, iv – P	
(3) i – Q, ii – S	S, iii – P, iv – R	(4) i – S, ii –	- R, iii – P,	iv – Q	
 20. 'X' is a good conductor of electricity. Which of the following could be 'X'? (1) Solid sodium chloride (2) Vinegar (3) Distilled water (4) Liquid oxygen. 21. The blood pressure in humans is greater at the feet than at the brain because (1) of gravitational force (2) weight of the human is concentrated at the feet. (3) of height of blood column (4) concentration of the blood is more at the feet. 					
22. Which of the	following practices	does NOT imp	prove the f	ertility of soil?	
(1) keeping th	ne land fallow	(2) prac	cticing cro	p rotation	
(3) practicing	multiple cropping	(4) prac	cticing mo	nocropping.	
23. A cube of side pressure exert	0.2 m and weighin ted by the cube on	ng 100 N rests the floor?	on the flo	or. What is the	- 0
(1) 10 N m^{-2}	(2) 100 N m ⁻²	2 (3) 500	N m ⁻²	(4) 2500 N n	1-2.
24. Study the give	n circuit diagram				
		с в			

How many bulbs will light up when switches A and B are closed in different situations?

					8021		
	Only switch A is closed		Only switch	B is closed			
	(1)	4	2				
	(2)	4	3				
	(3)	0	3				
	(4)	0	2				
25. Th	e killing of ar	nimals illegally is	referred to as				
(1) Assassinati	ng (2) Poaching	(3) Killing	(4) Hunting			
26. Th	26. The oldest oil refinery in India is located at						
(1) Mathura	(2) Digboi	(3) Haldia	(4) Kochi			
27. Th	e calorific val	lue of a fuel is exp	pressed in a ur	nit called			
(1) Kilojoule pe	er kilogram (2	2) Kilogram per	r Kilojoule			
(3	8) Joule per K	ilogram (4	l) Kilojoule per	gram			
28. Th	e purpose of	applying lubrican	nts to the movi	ng parts of a machine is	to		
(1)	Increase Fri	ction (2) Decrease	e Friction (3) C	lean the parts (4) Cool th	ie parts		
29. In	nagine you're	conducting an ex	periment whe	re you bring a charged o	bject		
cl	ose to anothe	er object. You obs	erve that the s	econd object moves with	out any		
di	rect contact.	Which type of for	ce are you like	ely observing in this scen	ario?		
(1) Pressure	(2) Muscular force	ce (3) Electrost	atic force (4) Gravitation	al force		
30. IU	JCN stands fo	or					
(1) Indian Uni	on for the Conser	vation of Natu	re and Natural resources	s.		
(2) Internatior	al Union for the (Conservancy o	f Natural resources			
(3) Internatior	al Union for the (Conservation o	of Nature and Natural res	sources.		
(4) Indian Uni	on for the Chemic	cal Nomenclatu	ure.			

31. Transformation of larva into an adult is called ______

(1) Cloning (2) Fertilisation (3) Metamorphosis (4) Embedding

32. The defect due to which a person is not able to see the distant objects clearly

(1) Myopia (2) Hypermetropia (3) Cornea (4) Cataract

33. Which figure shows the correct direction of frictional force when a wooden block is moving up on an inclined plane?



34. A figure of a periscope is shown below. Which labelled parts should be adjusted to view an object placed higher?



- (1) P (2) Q (3) R (4) All of these.
- 35. A boy feels difficult to pull the two similar rubber suckers apart as shown below. This is because



- (1) The air pressure is pressing on the suckers with negligible force.
- (2) The air trapped inside the suckers is exerting a large pressure.
- (3) There is no air inside the suckers.
- (4) The air pressure is pressing on the suckers with a great force.

SOCIAL SCIENCE

- 36. Lithosphere is made up of
 - (1) Soil and minerals (2) Rocks and minerals and Soil
 - (3) Minerals, soil and water (4) Water and rocks
- 37. Silica and magnesium are the constituents of
 - (1) Rock (2) Inner Core (3) Outer Core (4) Mantle

38.	A massive earthqu	ake hit Bhu	ıj Town o	on		8021
	(1) 16th December 2001 (2) 26th January 2004					
	(3) 26th January 2	001 ((4) 16th 1	December 2004		
30	March 22 is celebr	ated as Wo	rld			
59.	(1) Forth Dov. (2) F	nvironmen	t Dov	(3) Water Day (4)	Soil Day	
	(1) Earth Day (2) Environment Day (3) water Day (4) Son Day					
40.	40. Ladakh is also known as					
	(1) Khapa-tuaregs	(2) Kh	napa-cha	an		
	(3) Khapa-bedouin	s (4) Kh	napa-dra	SS		
41.	in	Indian Cor	nstitutio	n defines equality a	and prohibits	any kind
	of social discrimina	tion?			-	-
	(1) Article 10	(2) Article	12	(3) Article 15	(4) Article 2	1
42.	Which method was	adopted by	y the wo	men's movement to	o fight for wo	men's
	right					
	(1) Violence	(2) Campa	igning	(3) Harassment	(4) War	
43.	A law was passed i	n to giv	ve wome:	n who face physica	l and mental	violence
	within their homes	, also called	l domest	ic violence, some le	egal protectio	n
	(1) 2004	(2) 2005		(3) 2007	(4) 2006	
44.	Order of Chain of 1	narketing				
	(1) Producer-Agent	s -Retailer-	Wholes	aler		
	(2) Agents- Produc	er -Wholesa	aler-Reta	uiler		
	(3) Producer-Whole	esaler-Retai	iler-Agen	its		
	(4) Producer-Agent	s-Wholesal	er-Retail	ler		
45.	In recent times goo	ods are also	sold thi	rough advanced me	eans such as	
	(1) Internet and Ho	ome delivery	y	(2) Radio and new	spaper	
	(3) Internet and Ra	ıdio		(4) Advertisement	and TV	
46.	The fourteenth-cen	tury chroni	cler Ziya	uddin Barani wrot	e his chronic	le first in
	(1) 1256	(2) 1556		(3) 1456	(4) 1356	

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47.	Who were sub	ordinate to	the Pallava	kings	of Kanchipura	am	
	(1) Pala	(2) Rashtr	akutas	(3) C	chera	(4) Cholas	8
48.	Akbar became	an emper	or at the age	e of	_years.		
	(1) 15	(2) 17		(3) 2	0	(4) 13	
49.	Mundas and S	Santals live	d in the reg	ion of			
	(1) Orissa and	Bengal	(2) Biha	ar and	Orissa		
	(3) Bengal and	Assam	(4) Biha	ar and	Uttar Pradesh		
			~ /				
50.	Which state w	as called F	ajputana by	the B	ritish		
	(1) Madhya Pra	adesh	(2) Rajastha	n	(3) Punjab	(4) Gujara	at
51.	Lilatilakam, wa	as compose	ed in				
	(1) Manipurala	am	(2) Man	ipraval	lam		
	(3) Manipurva	lam	(4) Man	ipravol	lam		
				-			
52.	What defines the	ne introdu	ction to our	constit	ution?		
	(1) Preamble	(2) Sc	overeignty	(3) C	constitution	(4) None (of these
53.	Which is the hi	ighest law	making bod	y in ou	r country?		
	(1) Rajya Sabh	na (2) Lo	k Sabha	(3) C	Court	(4) None o	of these
54.	How many mer	nbers are i	there in the	Raiva s	sabha?		
	(1) 240 elected	l members	(2)	233 el	ected member	s	
	(3) 230 elected	l members	(4)	None	of these	-	
	(-)		()				
55.	Which is the Ar	rticle of Co	nstitution th	nat sta	tes that untou	ichability h	as been
	(1) Article 16	(2) Ar	ticle 18	(3) A	rticle 28	(4) Article	17
56.	The law agains	t child lab	our was imp	lement	ted in		
	(1) 2001	(2) 20)03	(3) 2	005	(4) 2006	
	(1) 2001	(2) 20		(5) 2	000	(1)2000	
57.	Name the term out like a slice	that can b of cake.	e given to tl	he vari	ous layers in t	he soil afte	er it is cut
	(1) Top Soil	(2) Sc	oil Horizon	(3) S	ub Soil	(4) Soil M	ixture

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58.	Name the term give	n to the comm	ercial rearing of silk wo	rms to supplement the		
	income of the farm	er.				
	(1) Horticulture	(2) Viticulture	(3) Sericulture	(4) Pisciculture		
59.	tribe pr	acticed settled	d agriculture.			
	(1) Khonds		(2) Santhals			
	(3) Labadis of And	lhra Pradesh	(4) Mundas of Ch	ottanagpur plateau.		
60.). Which of the following is a secondary activity?					
	(1) Coal mining in	ndustry	(2) Tourism industry			
	(3) fishing		(4) agriculture			
61	l continued to fight a guerilla war against British.					
	(1) Rani Lakshmi	bai	(2) Nana Saheb			
	(3) Tantia Tope		(4) Peshwa Baji Rao II			
62.	Widow remarriage	act was passed	d in the year			
	(1) 1826	(2) 1856	(3) 1876	(4) 1886		
63.	The fight for Purna	Swaraj was fo	ought under the preside	entship of		
	(1) Mahatma Gan	dhi	(2) Sardar Vallabhai Pa	atel		
	(3) Jawaharlal Ne	hru	(4) C. Rajagopalachari			
64.	Subjects such as ta	axes and defer	nce were covered under			
	(1) Union List		(2) Princely List			
	(3) State List		(4) Concurrent List			
65.	has bee	n called the ba	ackbone of industry.			
	(1) Diamond	(2) Iron	(3) Steel	(4) Petroleum		
66.	Sustainable Develo	opment is				
	(1) A right Balanc	e between use	of resources and conse	ervation of resources		
	(2) Allow the reso	arces to be ren	newed			
	(3) Promote recycl	ing of technolo	ogical devices			
	(4) Allow clearing of forests to construct apartments					

67.	was the Cha	airman of the Dra	afting Committee.		8021		
	(1) Rajendra Pras	sad ((2) T T Krishnamachari				
	(3) S C Sinha (4) B R Ambedkar						
68.	. The Constitution states that there should be no exercise of power.						
	(1) Mediatary	(2) arbitrary	(3) illegal	(4) custom			
69.	The President app	oints memb	ers of Rajya Sabha.				
	(1) 12	(2) 15	(3) 14	(4) 20			
70.	The type of soil is	determined by					
	(1) landforms	(2) soil erosion	(3) water sources	(4) Globalisa	tion		
		MATI	HEMATICS				
71.	The sum of ration	al numbers -3/1	6 and 5/12 is				
	(1)-7/48	(2) 11/48	(3) 13/48	(4) 1/3			
72.	is 1	the multiplicative	e identity for rational n	umbers.			
	(1) 1	(2) 0	(3) -1	(4) 1/2			
73.	Zero has r	eciprocal.					
	(1) 1	(2) 2	(3) 3	(4) No			
74.	Solve: $(5/2) x + (3)$	/2) =6/4					
	(1) $x = 1$	(2) $x = 2$	(3) <i>x</i> =3	(4) $x = 0$			
75.	If A= -7 then the v	value of A^2 - 3A					
	(1) 28	(2) -28	(3) -70	(4) 70			
76.	There are 2 Red,	3 Blue and 5 Bl	ack balls in a bag. A	ball is drawn	from the		
	bag without looking	ng in to the bag. `	What is the probability	v of getting a b	olue ball?		
	(1) 3/5	(2) 2/5	(3) 3/10	(4) 10/3			
77.	There are	non-square	numbers between the	squares of 5	and 6.		
	(1) 11	(2) 12	(3) 13	(4) 10			
78.	How many zeros v	will be there in th	e cube root of the num	nber 8000000	?		
	(1) 6	(2) 2	(3) 1	(4) 3			
79.	The product of tw	vo integers is 4 le	ess than 49. If one of t	the integers is	(- 9) the		
	other integer is						
	(1) 5	(2) 40	(3) -45	(4) -5			

80.	Avanti's present	age is Y years and	l her mother's age	is 4 years less than
	3\times her age, t	hen her mother's pr	resent age	
	(1) (3Y-4) years	(2) (4-3Y) years	(3) (3Y+4) years	(4) (4Y+4) years
81.	A sum of money a	t simple interest am	ounts to₹5500 in	1 year and to ₹ 6600
	in 2 years. Find th	he sum		
	(1) ₹ 4400	(2) ₹ 4200	(3) ₹ 4300	(4) ₹ 4100
82.	In a cricket match	, India has scored 1	.04 runs for 2 wick	ets by the end of the
	20 overs. If they m	aintain the same ru	n rate without losir	ng any more wickets.
	What would be the	eir final score at the	end of 50 overs?	
	(1) 156 for 2	(2) 208 for 2	(3) 260 for 2	(4) 312 for 2
83.	Which of the follow	wing is / are two-dir	nensional figure?	
	a. Square	b. Circle c. C	ube d. Cuboi	d
	(1) a,b only	(2) a, b, c only	(3) b, c, d only	(4) All of them
84.	Which of these car	n be expressed as a	power of 5?	
	(1) $2^{2}+3^{2}$ (2)	5+5+5+5+5 (3)	4x4x4x4x4 (4)	(7-2) x (7-2) x (7-2)
85.	A rhombus is sym	metrical about		
	(1) Each of its tw	o lines joining the n	nid-points of opposi	ite sides.
	(2) Each of its tw	o diagonals		
	(3) Both (1) & (2)			
	(4) None of these			
86.	The marked price	e of an article is R	s. 60 and it is so	ld at Rs.45, then the
	discount rate with	be		
	(1) 25%	(2) 35%	(3) 15%	(4) None of these
87.	Subash covers a o	distance of 1200 me	eters in 10 minutes	s. What is the speed of
	Subash?			
	(1) 1.2 kmph	(2) 7.2 kmph	(3) 12 kmph	(4) 72 kmph
88.	The ratio of Ritu's	income to her savir	ngs is 4:1. The perc	entage of money saved
	by her is			
	(1) 20%	(2) 25%	(3) 40%	(4) 80%

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89. Find the area of the given quadrilateral.



90. In the following figure, a transversal cuts two parallel lines l and m respectively and the angles thus formed are marked. If ∠1 is an acute angle, then, which of the following statements is false?



(1) $\angle 1 + \angle 2 = 180^{\circ}$ (2) $\angle 2 + \angle 5 = 180^{\circ}$ (3) $\angle 3 + \angle 8 = 180^{\circ}$ (4) $\angle 2 + \angle 6 = 180^{\circ}$

FOR ROUGH WORK ONLY