

GOVERNMENT OF PUDUCHERRY DIRECTORATE OF SCHOOL EDUCATION

OUESTION BOOKLET

DECEMBER 2020

PART – I MENTAL ABILITY TEST

Centre Code No.	Register No.			
				1

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. Time permitting, 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 amongst the ones given in the answer sheet for the corresponding question in the test booklet with black ballpoint pen only.

PART I MENTAL ABILITY TEST - DECEMBER 2020

1011

(4) Mile

Dui	ration: 2 hours			Max Marks:10
1.	Complete the series: 1 (1) 354	13, 24, 46, 90, 178, (2) 266	(3) 364	(4) 344
DIR	ECTION (Qs 2-3): Th	ne missing letters are gi	ven in proper sequence	e as one of the four
	natives given under qu	estion. Find out the cor		
2.		CCABBCC	(2) (24 D.4	(4) A CD A
	(1) BACB	(2) ABBA	(3) CABA	(4) ACBA
3.	1, 1, 3, 6, 5, 11, 7, ?		(Z) (E)	
	(1) 16	(2) 18	(3) 20	(4) 22
num	bered 1, 2, 3, 4, 5 and obers. Select that combine	6. Below are given four	alternatives containin	of letters is given which are g combinations of these cordingly form a meaningfu
	1 2 3 4 5 6 (1) 6, 1, 3, 5, 4, 2	(2) 5, 1, 6, 2, 4, 3	(3) 3, 4, 6, 1, 2, 5	(4) 2, 4, 3, 6, 1, 5
5.	TLPNAE 123456 (1)3,2,5,4,6,1	(2) 3, 2, 5, 4, 1, 6	(3) 4, 5, 3, 6, 2, 1	(4) 4, 6, 1, 3, 5, 2
	ECTIONS (Qs. 6-7): ionary and then choose	Arrange the given work the correct sequence.	ds in the sequence in v	which they occur in the
6.	1 Page 2 Pagan 3. P	alisade 4. Pageant 5. Pa	late	
		(2) 2, 4, 1, 3, 5		(4) 1, 4, 2, 5, 3
7.	1 Wrinkle 2 Wriggl	e 3. Writhe 4. Wretch	5. Wrath	o Spiro mornizalización y o
,.	(1) 4, 5, 1, 2, 3	(2) 5, 4, 2, 1, 3	(3) 4, 2, 5, 1, 3	(4) 5, 2, 1, 3, 4
DIF	RECTIONS (Qs.8): Fi	nd which one word can	not be made from the	letters of the given word
8.	CREDENTIAL (1) DENTAL	(2) CREATE	(3) TRAIN	(4) CREAM
9.	Choose the word wh (1) Biscuits	ich is least like the othe (2) Chocolate	er words in the group. (3) Cake	(4) Bread
				ords have been given, out o
	ch three are alike in so . (1) Venus	me manner and one is of (2) Saturn	(3) Earth	(4) Mercury

(2) Furlong

(3) Acre

10. (1) Venus

11. (1) Metre

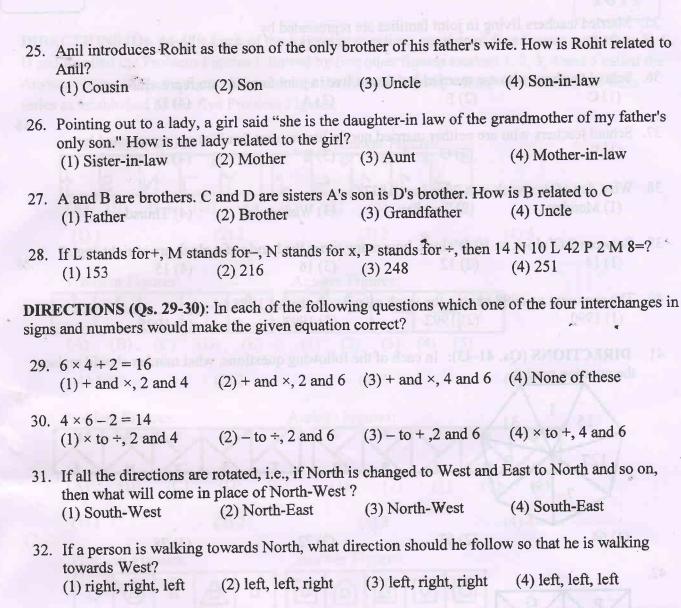
(4)4023. If the day before yesterday was Thursday, when will be Sunday? (1) Today (2) Two days after today (3) Tomorrow (4) Day after tomorrow 24. Gogul is fourteenth from the right end in a row of 40 boys. What is his position from the

(3)41

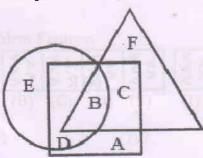
 $(1) 24^{th}$ (2) 25th $(3) 26^{th}$

(2)43

(4) 27th



DIRECTIONS (Qs. 33-37): In the following diagram, three classes of population are represented by three figures. The triangle represents the school teachers, the square represents the married persons and the circle represents the persons living in joint families.



33. Married persons living in joint families but not working as teachers are represented by (4) A (3) D(2) F(1) C

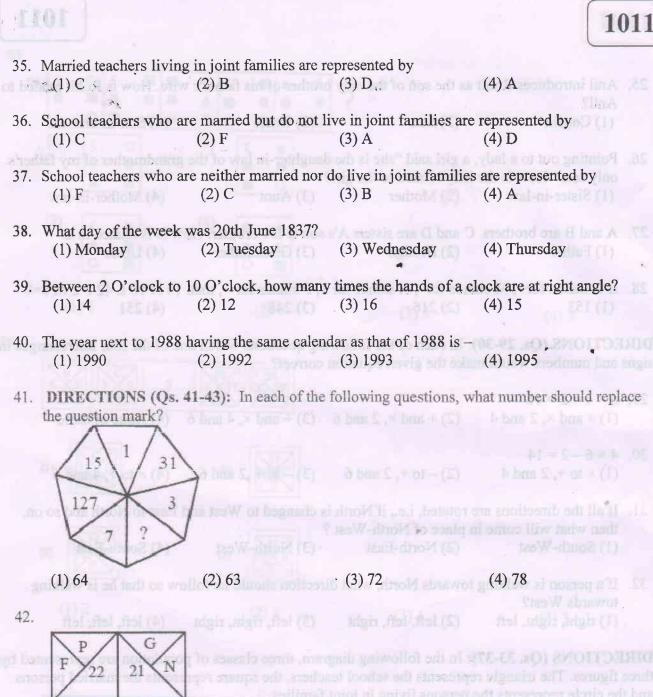
34. Persons who live in joint families, are unmarried and who do not work as teachers are represented by

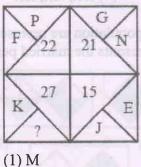
(1) C

(2) B

(3) E

(4) D



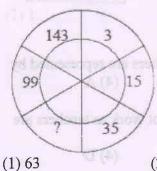


(2) P

(3) N

(4) R

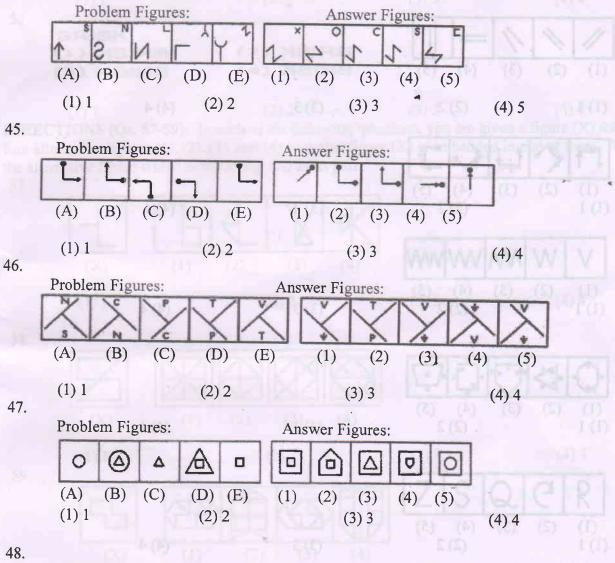
43.



(2)56

(3)60

DIRECTIONS (Qs. 44-48): Each of the following questions consists of five figures marked A, B, C, D and E called the Problem Figures followed by five other figures marked 1, 2, 3, 4 and 5 called the Answer Figures. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.



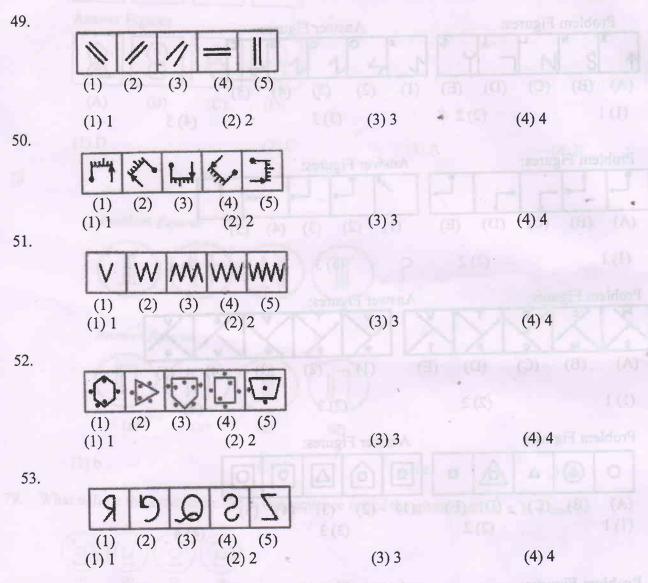
 Problem Figures:

 Answer Figures:

 (A) (B) (C) (D) (E) (1) (2) (3) (4) (5)

 (1) 1
 (2) 2
 (3) 3

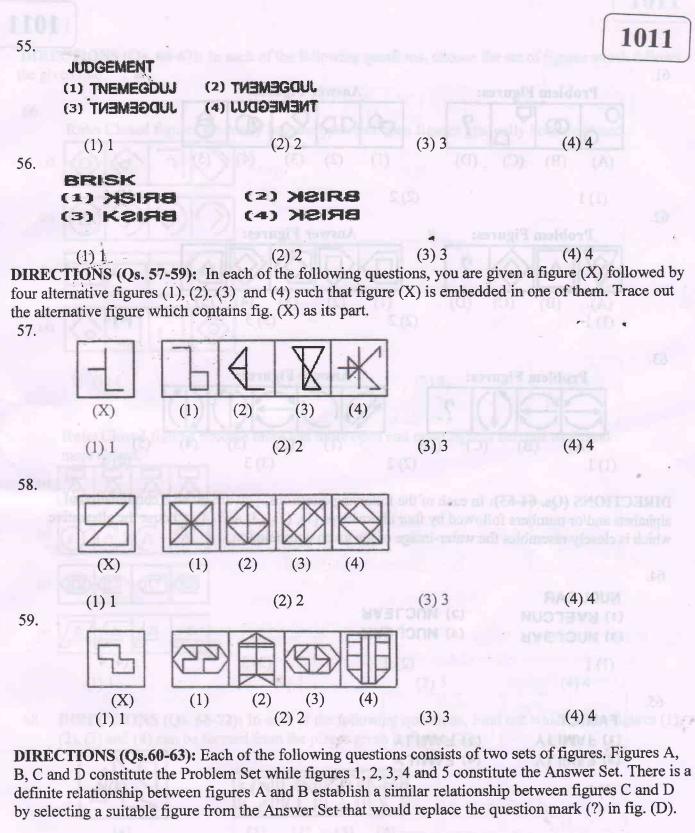
DIRECTIONS (Qs. 49-53): In each problem, out of the five figures marked (1), (2), (3), (4) and (5), four are similar in a certain manner. However, one figure is not like the other four. Choose the figure which is different from the rest.



DIRECTIONS (Qs. 54-56): In each of the following questions you are given a combination of alphabets and/or numbers followed by four alternatives (1), (2), (3) and (4). Choose the alternative which is closely resembles the mirror image of the given combination.

54.

247596 (1) 695742 (3) 247596 (4) 867742 (1) 1 (2) 2 (3) 3 (4) 4



60.

Problem Figures:

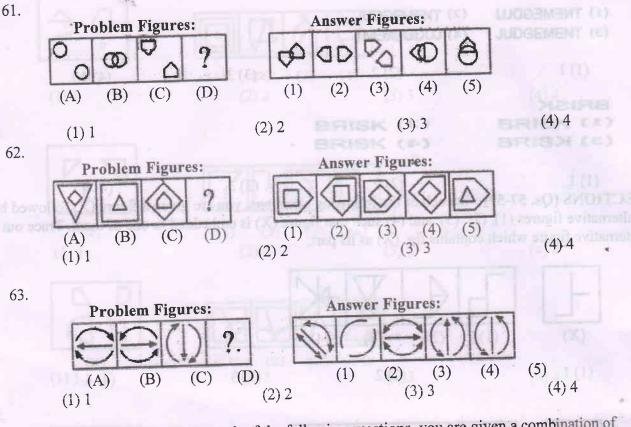
Answer Figures:

(A) (B) (C) (D) (1) (2) (3) (4) (5)

(1) 1

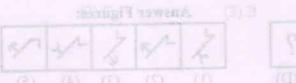
(2) 2

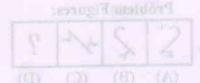
(3) 3



DIRECTIONS (Qs. 64-65): In each of the following questions, you are given a combination of alphabets and/or numbers followed by four alternatives (1), (2), (3) and (4). Choose the alternative which is closely resembles the water-image of the given combination.

64. NUCLEAR (2) NUCLEAR (1) RAELCON (4) NUCLEAR (3) NUCLEAR (4)4(3)3(2)2(1) 165. FAMILY (2) EWITA (t) JAMITY (4) EWILY (3) FAMIJY and Dispositrate the Problem Set while figure (2) 2 (3) 3 (4) 4 (1) 1 by selecting a suitable figure from the Answer Set that would regular





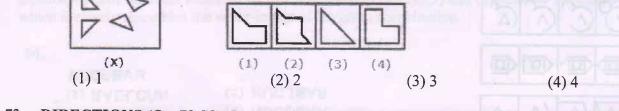
170

HO. DIRECTIONS (Qs. 66-67): In each of the following questions, choose the set of figures which follows the given rule. 66. Rule: Closed figures gradually become open and open figures gradually become closed. (1)(2) 0 (4)4(2)2(3)3(1) 167. Rule: Closed figures become more and more open and open figures become more and more closed. (1) **(**□ (4) 4 (2)2(3)3(1) 168. DIRECTIONS (Qs. 68-72): In each of the following questions, Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figure (X). (2) (1) (3)(X)

(2)2

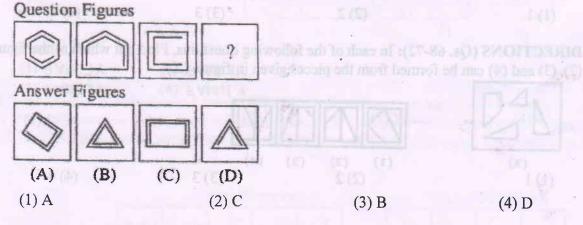
(1) 1

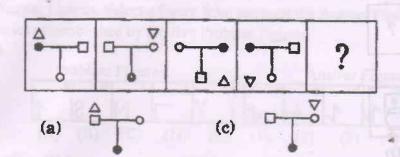
(3)3



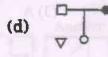
72.

73. **DIRECTIONS (Qs. 73-78):** In each of the following questions, out of the given answer figures, which is the correct one to replace the question mark?





(b) \$\frac{\dagger}{\dagger}\$



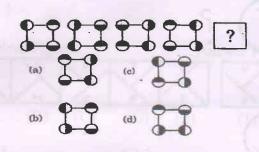
(1) b

(2) a

(3)c

(4) d

75.



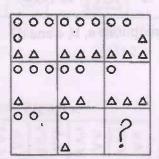
(1) a

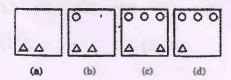
(2) d

(3)b

(4) c

76.



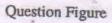


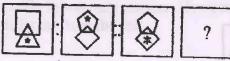
(1) d

(2) c

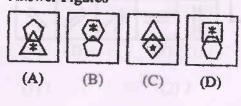
(3) b

(4) a





Answer Figures



(1) D

(2) C

(3) A

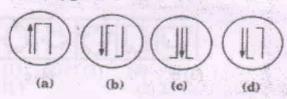
(4) B

78.

Problem figures :



Answer figures:



(1)b

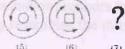
(2) d

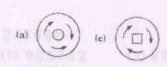
(3) c

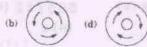
(4) a

79. What will be the seventh image in the sequence out of the given options a, b, c and d?









(1)c

(2) b

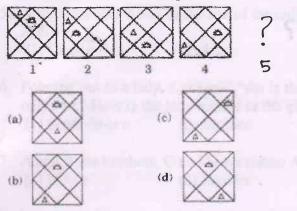
(3) d

(4) a

(4) d

80. What will be fifth in the sequence?

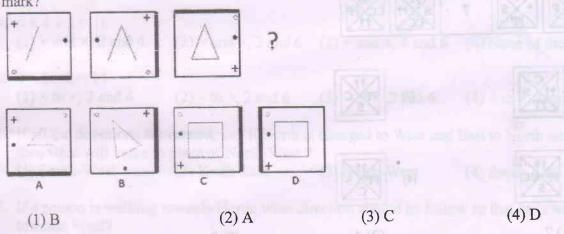
(1) a



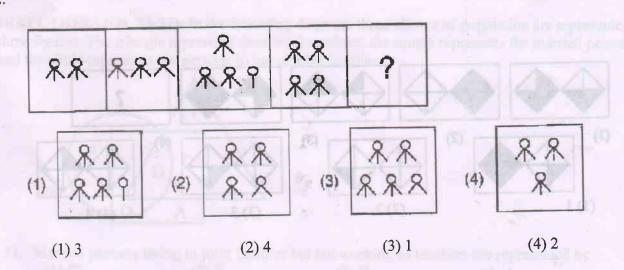
81. **DIRECTIONS** (Qs. 81-89): In each of the following questions, what will replace the question mark?

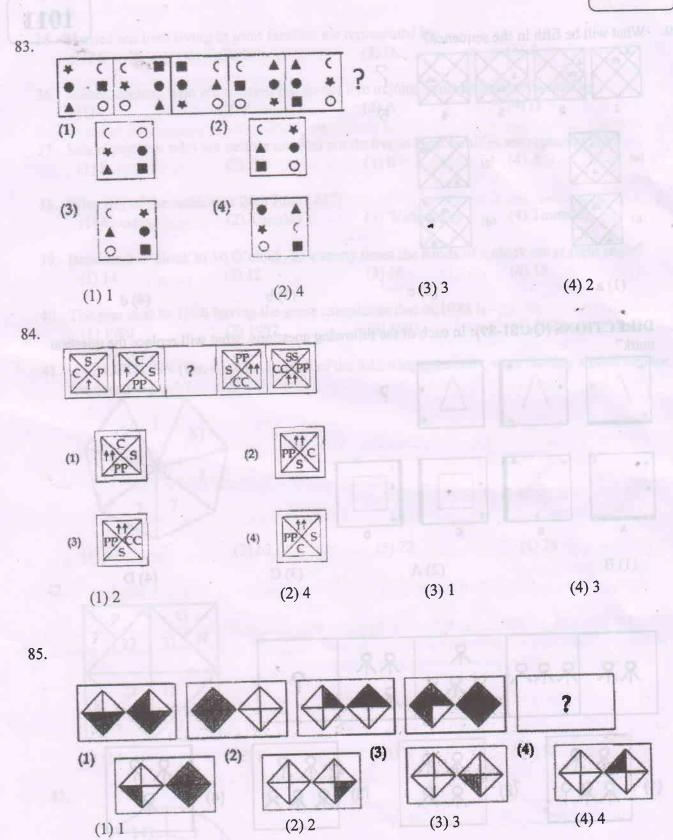
(3) b

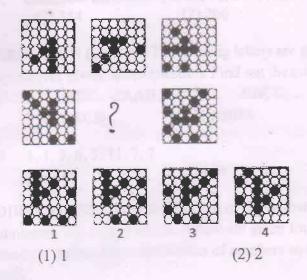
(2)c



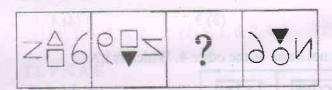
82.



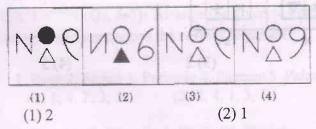




87.

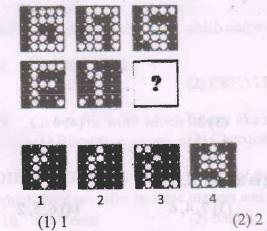


Options:

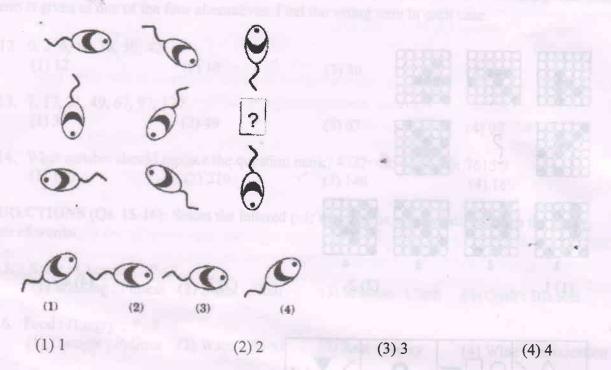


(3)3

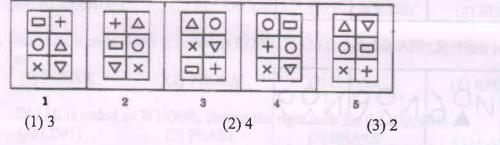
88.



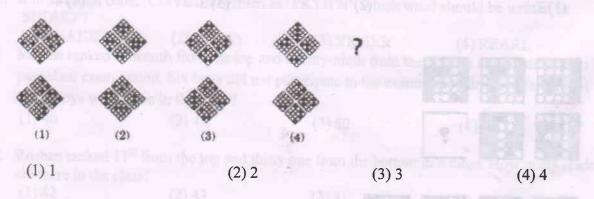
93. - In a chess board how many squires out be family



90. Out of the given 5 images, one image is not same as the other 4. Which is it?



91. What will be next in the sequence?



- 92. If X>Y, Y<Z and X>Z which one of the following is true of X, Y, Z?
 - (1) 2, 3, 4

- (2)4,3,2
- (3)7,4,6
- (4)6, 5, 2

- 93. In a chess board how many squares can be found?
 - (1)64

- (2) 124
- (3)346
- (4)204

94.	The unit digit in the sum (264) ¹⁰	$^{102} + (264)^{103}$		
	(1) 0	(2) 4	(3) 4	(4) 8
0.7	A and B can do a piece of work	in 45 and 40 days resp	ectively. They began th	e work together.
95.	But A leaves after some days ar	nd B finished the remai	ning work in 23 days. A	After how many
	days did A leave? (1) 6 days	(2) 8 days	(3) 9 days	(4) 12 days
06	A car travels 25 kmph faster th	an a bus and takes 10 h	nour less for a journey of	f 500kms. What is
96.	the speed of the car?			×
	(1) 55 kmph	(2) 50 kmph	(3) 60 kmph	(4) 70 kmph
0.5	A current of a stream runs at th	ne rate of 4km an hour.	A boat goes 6 km up th	e stream and back
97.	to the starting point in 2 hours	s. The speed of the boar	t in still water is	*
	(1) 6 km/h	(2) 7.5 km/h	(3) 8 km/h	(4) 6.8 km/h
98.	A reduction of 21% in the price	e of what enables a per	rson to buy 10.5kg more	e for ₹.100. What
	is the reduced price per Kg?			
	(1) 2	(2) 2.25	(3) 2.30	(4) 2.50
99.	A man buys 5 horses and 10 co	ows for ₹.1600. He sell	ls horses at a profit of 1:	5% and cow at a
,,,,	loss of 10%. If his overall prof	fit is ₹.90. What are the	e cost prices of a horse a	nd a cow:
	(1) ₹ 100 and ₹.50	(2) ₹.180 and ₹.80	(3) ₹.180 and ₹.100	(4) \.200 and \.00
100.	a annual to 3	₹.850 in 3 years and ₹.	925 in 4 Years the sum	is
100.	(1) ₹.600	(2) ₹.575	(3) ₹.625	(4) ₹.650

7. This is resum alliqued to marged on a squareto masser sheet provided in



GOVERNMENT OF PUDUCHERRY DIRECTORATE OF SCHOOL EDUCATION

QUESTION BOOKLET

DECEMBER 2020

PART – II SCHOLASTIC APTITUDE TEST

	THE STATE OF THE S
Ce	entre Code No. Register No.
	INSTRUCTIONS
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Duration: 2 Hours

Max Marks: 100

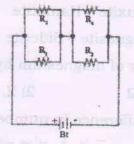
SCIENCE

- 1. The weight of a man in earth is 784 N. If the moon's gravity is 1.63 ms⁻², then the mass of the man at moon is ---
 - 1) 481 Kg
- 2) 130 Kg
- 3) 80 Kg
- 4) 49 Kg
- 2. An athlete runs in a circular track of radius 600m. If he reaches diagonally opposite side in one minute, then what is his average velocity?
 - 1) 20 m/s
- 2) 0 m/s
- 3) 31.4 m/s
- 4) 51.4 m/s
- 3. Clouds float in atmosphere because of their low ---
 - 1) density
- 2) pressure
- 3) velocity
- 4) mass
- 4. Match the following devices with symbols
 - a) Semiconductor diode
- ii)

b) Rheostat

c) Fuse

- iii) -
- d) Thermistor
- iv) -
- 1) a-iv, b-i, c-ii, d-iii 2) a-iii, b-i, c-iv, d-ii 3) a-iv, b-iii, c-ii, d-i 4) a-ii, b-iii, c-iv, d-i
- 5. The net effective resistance of a circuit is 5Ω when
 - 1) $R_1 = R_2 = 5\Omega$, $R_3 = R_4 = 10\Omega$
 - 2) 2) $R_1 = R_3 = 5\Omega$, $R_2 = R_4 = 10\Omega$
 - 3) $R_1 = R_2 = R_3 = R_4 = 5 \Omega$
 - 4) 4) $R_1 = R_2 = R_3 = R_4 = 10 \Omega$



- 6. The unit of magnetic flux density is -----
 - 1) weber
- 2) weber/metre
- 3) weber/metre² 4) weber. meter²
- 7. At noon, the sun appears white because
 - 1) all the colours of the white light are scattered away.
 - 2) light is least scattered
 - 3) blue colour is scattered the most
 - 4) red colour is scattered the most
- 8. A concave mirror gives an image three times as large as its object placed at a distance of 20 cm from it. For the image to be real, the focal length should be
 - 1) 10 cm
- 2) 15 cm
- 3) 20 cm
- 4) 30 cm

9. The specific heat c	apacities of variou	us form of water can	be arranged as	
1) water > steam	> ice 2) v	water > ice > steam		Duradont I H
3) Ice > water > st		team > water > ice		
10. Doppler effect can	not be applied wh	nen	10.0	
a) S (source) and I	L (listener) both a	re at rest		L. The weig
b) S is at rest and	L moves towards	him	oof to nam at	
c) S and L are mo	ving in mutually p	perpendicular directi	on	
0.0 17	awards each othe	r		
1) a and b 2) a	and c 3) a and	d 4) b and d *	side in one min	apposite
	1 4			
A mile	0. 7. 0. 0	of fission reaction	The second second	
3) Rate of fusion	reaction 4) H	all life bellon	2) pres	I) density
12. The planet which		ICH CTOT IS		
P. Shire Letters and American	O) Coturn	3) Uranus	4) Neptune	rag (a
1) Jupiter 13. Pick out the odd	one out based on	dispersion medium	4) jelly	
1) Curd	2) cheese	3) butter	4) jelly	
14. The volume occu	pied by 14 g nitro	gen gas is	0 11 0 T	a proper player
1) 5.6 L	2) 11.2 L	3) 22.4 L	4) 44.8 L	and wine (1
1) 5.6 L 15. Pick out the odd	pair	(6 h-but-a t-d m-)	3 (F. 111+D-111-D-1	Superior Superior S
1) Bauxite - Ha	matite 2	Cuprite - Cryolite		for toth arms is
3) Magnesite - S	Siderite 4	Galena – Zinc blenc	le sa sa sa	amontively
16. Acidity of magne	esium hydroxide a	and basicity of phosp	horic acid are re	specuvery
1) 0 0	2) 2, 3	3) 3, 2	4) 1,3	N = 1% [C
17. The difference in	n number of water	r molecules in Gypsu	am and Plaster o	I Fails is
1) $\frac{5}{3}$	2) 2	3) $\frac{3}{2}$ elements	4) -	o fint only
18 When milk turn	s into curd, its pl	H value	adam is	tonos. A
1) Inorposes	2) decreases 3	3) remains same 4)	Carmot be carea	lated
10 C(+) + O(a)	→CO 2(g) + Heat.	This reaction is		
a) Combustion	reaction 1	o) Combination react	ion	
c) Exothermic 1	reaction	d) irreversible reaction	on e) Oxidation	reaction
1) a and b	2) a, c and e	3) a,b,c	and e 4) a,t	o,c,a and e
20 TFM is the terr	n to be considered	d to assess the qualit	ty of	A concave
1) Cool drinks	2) Soap	3) Perfumes	4) Cough S	yrup
21. Which of the fo	ollowing is used a	s anesthetic and pair	n killer?	1) 10 cm
1) Alcohols	2) Aldehydes		4) Esters	

1) Alcohols

22. Congo red is an example of	Ave.		102
1) Acid dye 2) Basic dye 3		Dina at 1	
23. Hydrogen peroxide poured on a wound			(D)
oxygen bubbles over the wound preve			
1) Hydrogen 2) Hydrogen peroxid			
24 is used for the effective function			
1) Fe ⁵⁹ 2) P ³²			
25. In aquatic plants, aerenchyma will be			
1) Parenchyma 2) Collenchyma 26. By using artificial photosymthesis. C.			
26. By using artificial photosynthesis, C.1			
1) Hydrogen 2) Nitrogen 27. During winter we may notice water de-			
27. During winter we may notice water dro	opiets on the leaves of	of grass, this pro	cess of
removing excess of water is called			
1) Guttation 2) Imbibitions 28 Which of the following is called a floati			
28. Which of the following is called a floati			
Rhizobium 2) Mycorrhizae Regeneration type of reproduction occur			
29. Regeneration type of reproduction occu1) Spirogyra 2) Yeast			
30. Match the following	o) Hydra		
a) Nitrogen fixation - i) Pseu	domonos		
b) Ammonification - ii) Nitro			
c) Nitrification - iii) Fur			
1) 7	tobactor		
1) a-ii, b-iv, c-i, d-iii		Victoria	
3) a-iii, b- ii, c- iv, d- i	2) a-i, b- iii, c-iv		
31. Bolting can be achieved by using the p	4) a – iv, b – iii, d	C- 11, G- 1	
1) Auxins 2) Cytokinins		4) E41-1-1-	IT EAS
32. The only invertebrate that is capable of	3) Gibberellins	Deller M shreld	si.
awareness, personality and even relation			ı, self
1) Garden Snail 2) Octopus			
33 present in the saliva of leech doe	3) Cockroach	4) Crab	
1) Hirudin 2) Papilae	3) Diverticula	STREET, STATE STREET, STATE	
34. When the sun rays falls on the skin	DET CHENTER THE PERSON IN	4) Clitellum	
1) Dehydro Cholesterol 2) Fats		4) Proteins	



35	. The largest huma	an cell is	ic dye 3) Vat	1) Acid dye 2) Bay		
	1) Nerve cell	2) Sperm	3) ovum	4) 1 and 3		
36	. Match the followi	ing functions with	parts of the brain	oxygen bubbles over the		
	a) Relay centre - i) Cerebellum - i) Cerebellum					
	b) Thermoregulat	cory center - ii) F	Pons			
	c) Maintains body	y balance - iii)	Thalamus			
	d) Respiration & sleep cycle - iv) Hypothalamus					
	1) a-ii, b-i, c-iv, d	3) Solemachyriii -	2) a-iii, b-iv, c-i, c	- I) Perenchyma (2)ii-1		
	3) a- iii, b - ii, c-	i, d- iv	4) a- iv, b - iii, c -	- ii, d- i sollow galawys .as		
37	. Excess hunger d	lue to loss of gluco	se in urine is called	1) Hydrogenges 20 William		
	1) Polyuria	2) Polyphagia	3) Polydipsia	4) Hyperglycemia		
38.	Which is not a pa	art of white blood c	ell de halfas aira			
	1) Neutrophils	2) Eosinophils	3) Erythrocytes	4) Lymphocytes		
39.	World health day	is on				
	1) 16th October	2) 7 th April	3) 7th June	4) 21st March		
40.	Chronic damage	to brain and respir	ratory system is car	used due to the hazardous		
	heavy metal	present in e	e-wastes	1) Spirogystymm 10 Tos		
	1) Lead	2) Chromium	3) Cadmium	4) Mercury		
	1) Lead		3) Cadmium			
	1) Lead	2) Chromium	3) Cadmium	4) Mercury		
41.	1) Lead	2) Chromium SOCIA	3) Cadmium	4) Mercury		
41.	1) Lead	2) Chromium SOCIA ginates in	3) Cadmium L SCIENCE lake	4) Mercury		
	1) Lead The Nile river ori 1) Victoria	2) Chromium SOCIA ginates in 2) Elizabeth	3) Cadmium L SCIENCE lake 3) Nepolean	4) Alaxandria		
	1) Lead The Nile river ori 1) Victoria	2) Chromium SOCIA ginates in 2) Elizabeth	3) Cadmium L SCIENCE lake 3) Nepolean vanabelgola in Kar	4) Mercury		
42.	1) Lead The Nile river ori 1) Victoria The statue of Gon 1)Mahavira	2) Chromium SOCIA ginates in 2) Elizabeth nateswara at Shrav 2) Buddha	3) Cadmium L SCIENCE lake 3) Nepolean vanabelgola in Kar: 3) Bahubali	4) Mercury 4) Alaxandria nataka is known as		
42.	1) Lead The Nile river ori 1) Victoria The statue of Gon 1)Mahavira	2) Chromium SOCIA ginates in 2) Elizabeth nateswara at Shrav 2) Buddha	3) Cadmium L SCIENCE lake 3) Nepolean vanabelgola in Kar: 3) Bahubali	4) Alaxandria nataka is known as 4) Kadaram Kondan		
42.	The Nile river ori 1) Victoria The statue of Gon 1)Mahavira The height above latitude is called	2) Chromium SOCIA ginates in 2) Elizabeth nateswara at Shrav 2) Buddha which there is a po	3) Cadmium L SCIENCE lake 3) Nepolean vanabelgola in Kar: 3) Bahubali	4) Alaxandria nataka is known as 4) Kadaram Kondan ver in the higher altitude or		
42.	The Nile river ori 1) Victoria The statue of Gon 1)Mahavira The height above latitude is called 1) Altitude line	2) Chromium SOCIA ginates in 2) Elizabeth nateswara at Shrav 2) Buddha which there is a po	3) Cadmium L SCIENCE lake 3) Nepolean vanabelgola in Karr 3) Bahubali ermanent snow cov	4) Alaxandria nataka is known as 4) Kadaram Kondan ver in the higher altitude or		
42.	The Nile river ori 1) Victoria The statue of Gon 1)Mahavira The height above latitude is called 1) Altitude line We celebrate Nati	2) Chromium SOCIA ginates in 2) Elizabeth nateswara at Shrav 2) Buddha which there is a po	3) Cadmium L SCIENCE lake 3) Nepolean vanabelgola in Karr 3) Bahubali ermanent snow cov 3) Snowline in India	4) Alaxandria nataka is known as 4) Kadaram Kondan ver in the higher altitude or		
42. 43. 44.	The Nile river ori 1) Victoria The statue of Gon 1)Mahavira The height above latitude is called 1) Altitude line We celebrate Nati 1)25th January	2) Chromium SOCIA ginates in 2) Elizabeth mateswara at Shrav 2) Buddha which there is a per 2) Latitude line onal Voters Day or 2) 25th February	3) Cadmium L SCIENCE lake 3) Nepolean vanabelgola in Karr 3) Bahubali ermanent snow cov 3) Snowline in India	4) Mercury 4) Alaxandria nataka is known as 4) Kadaram Kondan ver in the higher altitude or 4) Longitude line 4) 25th April		
42. 43. 44.	The Nile river ori 1) Victoria The statue of Gon 1)Mahavira The height above latitude is called 1) Altitude line We celebrate Nati 1)25th January Who was the four	2) Chromium SOCIA ginates in 2) Elizabeth nateswara at Shrav 2) Buddha which there is a period of the construction of Widow Rem	3) Cadmium L SCIENCE lake 3) Nepolean vanabelgola in Karr 3) Bahubali ermanent snow cov 3) Snowline in India 3) 25thMarch	4) Mercury 4) Alaxandria nataka is known as 4) Kadaram Kondan ver in the higher altitude or 4) Longitude line 4) 25th April		

61. When was the Wacsaw Pact dissolved? it av 46. The first Hydro-electric power station in India was established at _____ in 1897 1) Kalpakkam 2) Kudankulam 3) Trombay 4) Darjeeling 47. The Term "Globalisation" was introduced by _____ 1) Pro.Roosevelt 2) Pro.Keynes 3) Pro.Theodre Levitt 4) Pro.Thodarmal 48. Tidel forest are also known as 1) Alphine forest 2) Mountain forest 3) Mangrove forest 4) Tropical dry forest 49. The north-south extent of India is 1) 2,500 Km 2) 2,933 Km 3) 3,214 Km 4) 2,814 Km 50. GATT's first round was held in 1) Tokyo 2) Uruguay 3) Torquay 4) Geneva , 100 51. Inscription that mentions the Cheras 2) Girnar 3) Pulimankombai 4) Madurai 1) Pugalur 52. The other name for Greeks was 1) Hellenists 2) Hellenes 3) Phoenicians 4) Spartans 53. Many million years ago, India was part of the super continent -----1) Gondwana 2) Laurasia 3) Panthalasa 4) Pangea 54. Tamil Book, "Tambiran Vanakkam" was published from -----2) Mumbai 3) Goa 4) Delhi 1) Chennai 55. Formulation of 60 minutes an hour: 24 hours a day 2) Mesopotamian 3) Chinese 4) Harappan 1) Egyptian 56. Who accurately calculated the diameter of earth? 2) Eratosthenes 3) Hipparchus 4) Ptolemy 1) Euclid 57. An example of Dead volcano 1) Mt. Helens 2) Mt. Fuji 3) Mt. Kilimanjarao 4) Mt.Everest 58. Which tree found in Tropical Forest Biomes 1) Ebony 2) Lemon grass 3) Palms 4) Lichens 59. The father of Local Self government in India 1) Mahatma Gandhi 2) Periyar 3) Lord Ripon 4) Lord Curyon 60. Which Economist introduced "Human Development Index" 1) Amartya Sen 2) Mahbub Ul Haq 3) Raghuram Rajan 4) C.Rangarajan

6	1 When was the Warren	- D + 1' +				
U	1. When was the Warsay					+
6	1) 1979 2) 19	89	3) 1990	min positive	4) 1991	
0.	2. When was the first Fo	rest Act ena	cted?			
	1) 1858 2) 19	11	3) 1865		4) 1936	
6	3. In Feudalism, "Villein	s or Serfs" a	re called	esagoN.on		
	1) Dukes 2) Co	unts	3) Earls		4) Slaves	
64	1. Out of 14 highest Peal	ks in this wo	rld, Himala	yas holds	peaks.	
	1) 6 2) 7		3) 8	intibut Ind	4) 9	
65	5. Which is the high qua	lity of coffee,	cultivated:	more in In	dia?	
	1) Arabica 2) Bol	nea	3) Robusta	a midden a	4) Assamica	
66	c. 'Child help line 'numb	er in India _	Profits in		I (Sherill of	
	1) 1098 2) 190	8	3) 1809	do sili enz	F) 1089	rai ferigonal
67	The Detroit of Asia 'is	ind markner			A Carrie Language	
	1) Tuticorin 2) Coim	batore	3) Chennai	eaw exten	4) Madurai	
68	. The Earth was formed	approximate	ly	billio	ons years age	0.
	1) 10.01 2) 6.01		3) 5.50	We be built a	1) 4.54	liene o regar
69	. Sekkilar'sPeriyapurana	m was prese	ented (Aran	getram) at	the temple i	in base fi
	1) Chidambaram 2) S	rirangam	3) thiruva	rur 4)	Vedaranvan	n H Handi e
70.	'Stop, Drop and Roll' is	a mock drill	a vowal for	indmut	1/2 - 2/1	of Chemn
	1) Earthquake 2) Te	sunami	3) Fire	4)	Riot	
71.	India shares shortest be	order with _	dan 31 Chi	Mesopotan	2)	
	1) Nepal 2) Afg	ghanistan	3) Myanma	ar 4)	Bhutan	
72.	The Term Non- Alignme	nt was coine	ed by	en Stratostiner		
	1) Jawaharlal Nehru					
	3) Indra Gandhi					
73.	National Income is also	called as	pro	duct		
	1) Gross Domestic	2) Net Natio	nal 3) Ne	et Domesti	0 1) Cross	NI-4: 1
74.	Marudhu Brothers were	executed in	the fort of	Domesti	C T) GIUSS	National
	1) Kayathar				4) Tirupa	
75	Chauri Chaura ia in		Human Dev	baoubor	Tirupa	
	Chauri Chaura is in	W I'm				
	1) Uttar Pradesh	2) Bihar	3) Oc		4) West F	

76	5. Project Tiger was	s launched in the y	Tear		1021
	1) 1973	2) 1974	3) 1975	4) 1976	1521.
77	7. The largest prod	ucer of Manganese	50	,	87. If 16cots
	1) HCL	2) MOIL	3) SAIL	4) CIL	1) -
78	3. Mussolini was k	illed in	$0.4x^2-2x+(\lambda-4)=0$	of the equation	001 sino 11 88
	1) April 1945	2) May 1945	3) June 1944	4) July 1944	
79	. Farazi movemen	t was launched by	No bank 8 Easte resion	n-bus about lo	89. The value
	1) Haji Shariatul	lah 2) Titu Mir	3) Sidhu	4) Kanu	° 3) 20.6
80). National Institut	e of Oceanography	was established or	n -sepildo na lo	90. The CSA
	1) 01.01.1996	2) 01.01.1997	3) 10.10.1998	4) 10.10.1999	to the b
			2) 2m (hieho	atim, pe m	1) 2mhj)
		MAT	THEMATICS	atimy pa (state	
81	. There are 576 bo	ys and 448 girls in	a school that are	to be divided int	o equal
	sections of either	boys or girls alone	e. The total numbe	r of sections thu	s formed are
	1) 22	2) 16	3) 36	4) 21	if the cup
82	. The number of m	ultiples lying betw	een n and n² which	h are divisible by	y n is
	1) n + 1	2) n	3) n – 1	4) n – 2	mo l(1-
83	. A chess board co	ntains 64 equal sq	uares and the area	of each square	is 6.25 cm ² ,
	A border around	the board is 2cm v	wide. The length of	the side of ches	s board is
	1) 8 cm	2) 12 cm	3) 24 cm	4) 36 cm	I) one to
84	. In a family of 3 c	hildren, the probab	oility of having atle	ast one boy is	93. Given fi
	1) 7	2) $\frac{1}{8}$	3) $\frac{s}{8}$	4) = 4	in the second
85.	. Simplify [(A ∪ B)'	∩ (A ∩ B)']' and [(A	uB)' u (AnB)']'	2)2	(£ (-) (d
	1) AuB and AuB	2) A∪B and A∩B	3) AnB and AuB	4) AnB and Ani	3
86.	4) neither A.P nor				9.6) a (1
87.7	1) a= -7, b=-1	rocentre internally	3)a=2,b=-6	4) a=0,b=-6	95. The cent
					III IIIOII

S	m	I-	C	CZ	1
×	FFR	5W	₩.	w	

1)1:1 2)2:1 3)1:2

	The State of the S	Siller Guar			
87	If $16\cot x = 12$	c, then Smx+Cosx	=?		
	1) $\frac{1}{7}$	$2)\frac{3}{7}$	3) $\frac{2}{7}$	4) 0	
88	. If one root of t	the equation 4x²-2	$2x + (\lambda - 4) = 0$ be the	reciprocal of the	other, then $\lambda =$
	1) 8	2) -8	3) 4	4) -4	
89	. The value of m	node and mean ar	e 18 and 27 respec	tively. The value	of median
	1) 20.3	2) 49.5	3) 24	4) 40.5	
90			of a cylinder when		
	to the base is	umorumily) see			1, 61.01.18
	1) 2πrh ₁ h ₂ sq	units 2	2) 2mr (h ₁ -h ₂₎ sq. un	its	
	3) $2\pi r \left(\frac{h_1 + h_2}{2}\right)$ so	q. units 4) 2πr (h ₁ +h ₂) sq .ur	nits	81. There are
91	. A solid sphere	of radius 6 cm is	melted into a hollo	w cylinder of un	iform thickness.
	If the external	radius of the base	e of the cylinder is 5	icm and its heigh	ht is 320mm,
	then find the t	wice the thickness	s of the cylinder	e of multiples ty	
	1)1 cm	2) 2 cm	3)1 mm	4)2 mm	
92	. If the range of	a function 'f' is no	ot a proper subset o	of co-domain, the	en the function
	is a/an	o sale sufferinge	le Zom wiffe. The Jo	brand Stat brazon	
	1) one to one	2) onto	3) into	4) none	
93	Given $f(x) = (-1)^{-1}$	1)* is a function fr	rom N to Z. Then th	e complement of	f the range of f
	is		privation		
	1) {-1, 1}	2) Z	3) N - {-1, 1}	4) Z - {-1, 1}	
94	. If a, b, c, 1, m	, n are in A.P ther	a 3a+7,3b+7,3c+7,3	l+7,3m+7,3n+7	form
	1) a G.P	2) an A.P	3) a constant	sequence 4) nei	ther A.P nor G.P
95.	. The centroid d	livides circumcent	re and orthocentre	internally in the	ratio
	from the orth	ocentre.			

4) None

		Y.J			1021
96.	The	angle of inclination	of any line which does n	ot touch the x – ax	ris is
	1)18	0°	2) 90°	3) 0°	4) 30°
97.	Wha	at is the complemen	t of complement of sure	event	2
	1) In	npossible Event	2) Mutually Exclusive E	vent 3) Sure Eve	ent 4) None
98.	The	abscissa of a point	is perpendicular distanc	e of that point from	n
	1) X-	-axis	2) Y-axis	3) Origin	4) None
99.	The	value of X for the ed	$x^2 + \frac{1}{x^2} = 2 + \frac{1}{x^2}$	$-\frac{3}{2}\left(x-\frac{1}{x}\right)_{is}$	
	1) ±1		2) ±2	3) 0	4) None
00.	Fine	d the value of $\sqrt{16+1}$	2√63	Select No.	
	1) 1	$\sqrt{3} + \sqrt{21}$	$_{2)}\sqrt{7}+\sqrt{9}$	$_{3)}\sqrt{3}+\sqrt{7}$	4) None
					injie
		of your family of the C	AASUM.		
				do not spend much yesteam come back or and my them 198	
			of A by mill spending		
			e been provinged for rough (
			to marked the superate		