

# STATE INSTITUE OF SCIENCE EDUCATION (S.C.E.R.T), PUNJAB, MOHALI

## National Talent Search Examination – 2015

State Level Test – 2015 Class – X MENTAL ABILITY AND SCHOLASTIC APTITUDE TEST

#### **Time: 3 Hours**

#### Instructions for candidates:-

- 1. This exam is in two parts.
- 2. Part-I is related to Mental Ability Test.
- 3. Part-II relates to Scholastic Aptitude Test. It consists 3. ਦੁਜਾ ਭਾਗ ਵਿਸ਼ਿਆਂ ਦੀ ਯੋਗਤਾ ਨਾਲ ਸੰਬੰਧਤ ਹੈ। ਇਸ ਵਿੱਚ of nine subjects, details of which are given below:
  - i) Physics ii) Chemistry
  - iii) Biology Mathematics iv)
  - v) History Geography vi)
  - vii) Civics viii) Economics
  - ix) English
- 4. Each question carries one mark. All questions are compulsory.
- 5. You have been provided with a answer sheet (OMR) for this question paper. Darken the correct option of · each question in the answer sheet (OMR) with black/blueink.
- 6. Rough work may be done on the blank space provided.
- 7. There is no negative marking in this question paper.
- Do not use white fluid on OMR Answer Sheet.

### ੳਮੀਦਵਾਰਾਂ ਲਈ ਹਦਾਇਤਾਂ :

- ਇਹ ਪ੍ਰੀਖਿਆ ਦੋ ਭਾਗਾਂ ਵਿੱਚ ਹੈ।
- ਪਹਿਲਾ ਭਾਗ ਮਾਨਸਿਕ ਯੋਗਤਾ ਨਾਲ ਸੰਬੰਧਤ ਹੈ।
- ਨੇ ਵਿਸ਼ੇ ਹਨ, ਜਿਨ੍ਹਾਂ ਦਾ ਵੇਰਵਾ ਹੇਠ ਦਿੱਤਾ ਹੈ-

Max. Marks: 200

- ਭੌਤਿਕ ਵਿਗਿਆਨ ii) ਰਸਾਇਣ ਵਿਗਿਆਨ i)
- iii) ਜੀਵ ਵਿਗਿਆਨ ਗਣਿਤ iv)
- v) ਇਤਿਹਾਸ vi) ਭੂਗੋਲ
- vii) ਨਾਗਰਿਕ ਸ਼ਾਸਤਰ viii) ਅਰਥ ਸ਼ਾਸਤੇਰ
- ix) ਅੰਗ੍ਰੇਜ਼ੀ
- ਹਰ ਇੱਕ ਪ੍ਰਸ਼ਨ ਦਾ ਇੱਕ ਅੰਗ ਹੈ।ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਜ਼ਰੂਰੀ ਹਨ।
- ਤੁਹਾਨੂੰ ਇਸ ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਲਈ ਉੱਤਰ ਸ਼ੀਟ ਦਿੱਤੀ ਗਈ ਹੈ। ਉੱਤਰ ਸ਼ੀਟ (ਓ ਐਮ ਆਰ) ਵਿੱਚ ਪੁਸ਼ਨ ਦੇ ਸਹੀ ਉੱਤਰ ਨੂੰ ਕਾਲੀ/ਨੀਲੀ ਸਿਆਹੀ ਨਾਲ ਭਰ ਕੇ ਦਰਸਾਓ।
- ਕੱਚਾ ਕੰਮ ਦਿੱਤੀ ਗਈ ਖਾਲੀ ਥਾਂ ਤੇ ਕਰਨਾ ਹੈ।
- 7. ਇਸ ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਖ ਰਿਣਾਤਮਕ (ਨੈਗੇਟਿਵ) ਮਾਰਕਿੰਗ ਨਹੀਂ ਹੈ।
- 8. ਉੱਤਰ ਸ਼ੀਟ (ਓ ਐਮ ਆਰ) ਉਪਰ ਵਾਸੀਟ ਫਲਿਊਡ ਦੀ ਵਰਤੋਂ ਨਾ ਕੀਤੀ ਜਾਵੇ।

#### **MENTAL ABILITY**

**Directions (Q.1-2):** There is a number series following a pattern. One place is left blank. Find the correct answer from the options.

1.	1, 2, 4, 8,	?, 32		
	(A) 10	(B) 12	(C) 14	(D) 16
2.	16, 33, 65, 131,	(?), 523		
	(A) 261	(B) 521	(C) 613	(D) 721
3.	Find the odd nu	ımber		
	3, 7, 9, 28, 27, 8	34, 81, 448, 243		
	(A) 84	(B) 81	(C) 28	(D) 7

**Directions (Q.4-5):** The letters given below follow a definite pattern. Find out the missing letters to complete the pattern.

4.	-хух-хху-ххх-хх			
	(А) ухух	(B) xxxy	(С) уууу	(D) хуху
5.	gfe-2g-e22-fe2-gf-2	22		
	(A) 2f2ge	(B) e2fg2	(C) f2g2e	(D) 2fg2e
6.	In a certain code la in that code langua	0 0	tten as 'LPWISCA'. How	v will 'LETTERS' be written
	(A) OUGTDPQ	(B) OUGTPQ	(C) OUGTPDQ	(D) OGUTDPP
7.	In a certain code la in that code langua		ten as "79512". How v	vill "DOWRY" be written
	(A) 41523	(B) 46897	(C) 46597	(D) 42315

**Directions (Q.8-9):** What will come in place of question mark(?)

8. 3 7 (5) 7 (3 2 5 8 2 3 10 6 (A) 3 (C) 5 (D) 6 (B) 4 27 27 9. 56 (?) 36 (1) 813 36 1 9 9 17 9 (A) 9 (B) 10 (C) 11 (D) 12 10. Abhijot walks 6 km to the west then he turns to his right and moves 8 km then he turns to his left and moves 9 km then turns to right and moves 12 km. Now in which direction is he from his starting point and how far? (A) 15 NE (B) 35 NE (C) 25 NW (D) 45 SE

**Directions (Q.11-12):** Read the following information carefully and answer the questions given below. In a certain code " her idea has merit" is written as " fa lu boo ma", "merit list has been displayed" is written as "go he lu si ma", "her name displayed there" is written as " ya si boo zo", and "name in merit list" is written as " ma ya jho he"

11.	What is the code for (A) he	"been"? (B) lu	(C) go	(D) si
12.	What is the code for		(0) 80	
	(A) jho	(B) ma	(C) zo	(D) boo
13.	If blue is called red, r white, what is the co	ed is called green, gree lour of grass?	en is called black, and l	black is called
	(A) Red	(B) Black	(C) White	(D) Green
14.		ng operations will resu		
	(A) 16 +12-8×13÷15		(B) 16 -12×8 ÷13+15	
15	(C) 16 ÷12+8 –13×15	as is ( it means by and	(D) $16 \times 12 \div 8 + 13 - 15$	value of
15.	125–5×10 ÷13+28 =?			
_	(A) 129	(B) 127	(C) 149	(D) 150
16.		nts Rhombus, quadrila		$\sim$
	(A)	(B) 00	(C)	
17.	Select the combination	on of numbers so that	the letters arranged a	ccordingly will from a
	meaningful word			
	R T A	N U E		
	1 2 3	4 5 6		
	(A) 1, 3, 2, 6, 4, 5	(B) 4, 6, 5, 2, 3, 1	(C) 4, 3, 2, 5, 1, 6	
18.		ng words cannot be ma	ade from the letters gi	ven in question.
	TRANSFORM (A) FORT	(B) ROAM		
10			(C) TRAIN	(D) RANSOM
19.	the second place.	ords in the alphabetica	i order and choose the	e word that comes in
	(A) Reserve	(B) Real	(C) Rest	(D) Repeat
20.		ext leap year after 2020	• •	(-)
	(A) 2026	(B) 2029	(C) 2103	(D) 2024
21.	P, Q, R, S, T, U, V, W a	are sitting around table	e in same order, for gr	oup discussion at equal
	distances. Their posit position of S?	ions are clockwise. If \	/ sits in the North, thei	n what will be the
	(A) East	(B) South-East	(C) South	(D) South-West
22.	• •	her is sister of Vinod's		-
	(A) Brother-in-law	(B) Uncle	(C) Maternal Uncle	(D) Cousin

Directions (Q.23-24): Read the following information and answer the questions given below it.

Anju is older than Manju. Gopal is older than Manju but younger that Anju. Kapil is younger than Ramesh and Manju. Manju is older than Ramesh.

23.	Who is the ol						
	(A) Anju	•	8) Manju		(C) Kapil		(D) Gopal
24.	<b>.</b>						
	(A) Manju		8) Kapil		(C) Alka		(D) None of these
25.	25. Find out the connection/relation of the given row/columns with each other in some way.						
	ROWS		COL	UMNS			
	1	73	12	21	48		
	2	121	13	22	136	$\sum$	
	3	84	28	46	517		
	4	512	87	141	224		
	(A) Columns	1&11			(B) Colui	nns I	II & IV
	(C) Columns	II&IV			(D) Colu	mns l	I & III
26.	A tree always	has					
	(A) Branches	(E	) Leave	5	(D) Fruit	5	(D) Roots
27.	How many 5's	s are there	in the f	ollowing n	umber seq	uence v	which are immediately
	preceded by 7 and immediately followed by 6?						
	75594576459	87567643	25678				
	(A) One	(E	s) Two		(C) Three	į	(D) Four

**Directions (Q.28-29):** In these questions one of the rules is applicable, find out the rule and correct alternative

(A) Multiply the number by 3 and add 3 to the result.

(B) Subtract twice the number from the square.

(B) 28

(C) Multiply the number by 5 and subtract 3.

(D) Add the number to its square.

28. 12, 20, 30, 42

30. In the given question symbols do not stand for their actual meaning but indicate some relationship. Understand the relationship and find correct alternative 24+33=99

40+23=115

16+25= 50

64+13=? (A) 74

(C) 58

(D) 104

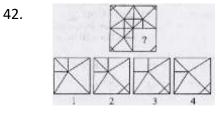
31. Visiting the historical monument, a tourist asked "How old is this monument?" The guide replied" The age of monument was square number two years ago and will be cube after two years. What is the age of historical monument?
(A) 343
(B) 216
(C) 123
(D) 66

**Directions (Q.32-34):** Some bricks of the same size have been arranged in a block in figure kept on table. All the exposed faces have been painted with colour. Answer the question given below.

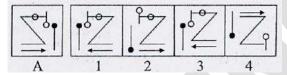
32.	How many bricks are	there in the fig	ure?		
	(A) 40	(B) 38	(C) 46	([	D) 52
33.	How many faces of t	· ·	• •		
	(A) 40	(B) 84	(C) 80		0) 78
34.	How many bricks are	e there whose o	nly one face is pa	ainted?	
	(A) 16	(B) 28	(C) 24	([	0) 20
35.	that the last bus left frequency of the bus	the bus stop at	9:25 am Abhino	or's watch is 5 n	
	next bus?				
	(A) 15 minutes	(B) 10 minutes	s (C) 25 m	inutes (I	D) 5 minutes
Direct	t <b>ions (Q.36-37):</b> Find t	he odd alternati	ve		
36.	(A) 25	(B) 36	(C) 49	([	D) 64
37.	(A) CEFH	(B) MOQS	(C) ACE	G (I	D) ZBDF
Letter	<b>Directions (Q.38-39):</b> In each of the following questions, there is a relationship between two Letters/Word/Number on the left of the sign (::). The same relationship exists between the two to right of the sigh (::) of which one is missing. Find out the missing from the alternative.				
38.	PI: <sup>4</sup> //::DY:? 3				
	(A) $\frac{3}{5}$	(B) <u>4</u> 5	(C) <u>6</u> 5	])	D) <u>2</u> 5
39.	CIRCLE : RICELC :: SC		<b>( _ )</b>		
	(A) QSUERA	(B) QUSERA	(C) UQS	•	D) UQSRA
40.	left end?	-			his position from the
	(A) 27 <sup>th</sup>	(B) 26 <sup>th</sup>	(C) 25 <sup>th</sup>	(D) 24 <sup>th</sup>	

**Directions (Q.41-42):** In these questions problem figure is incomplete. Find correct alternative to complete problem figure.

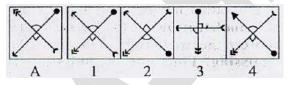
41.  $\begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & &$ 



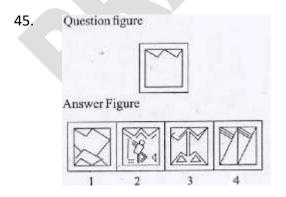
43. Find the mirror image of figure A.



44. Find the water image of figure A.

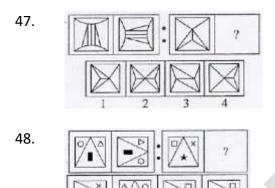


**Directions (Q.45-46):** In these questions figure is embedded in one of the answer figure. Find the correct one in which it is embedded.



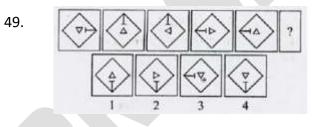
46. Question Figure Answer Figure 1 2 3 4

**Directions (Q.47-48):** In each of the following questions there is a relationship between two figures on the left side of the sign::, The same relationship exists between the two, to the right side of sign::, Find the correct alternative.



2

**Directions (Q.49-50):** The figures in each of the questions follow a series select the figure from the given alternatives which would continue the series.



50.

## SCHOLASTIC APTITUDE TEST Physics

			ysics		
51.	(A) Gravitational fo	met due to other plar	(B) Electrical force	2	
52.	• •	resistance between po	ints A and B $\begin{pmatrix} A \\ B \\ D \end{pmatrix}$		
53.		on identify the particle			
	(A) Proton	(B) Neutron	(C) Electron	(D) Positron	
54.		e new radius of earth out changing the mass (B) 2R		cape velocity to half of the (D) 4R	
55.	The nature of image optical centre of co	e formed when an ob onvex lens hed (B) Real, Magnifie	ject is placed between	n Principal focus and	
56.	A person is running	g along a circular track	of area $625\pi m^2 (\pi =$	22 / 7)with a constant	
		placement in 15 secor n (C) 25 m (D) 50 m	nds if he has to compl	ete the race in 30 sec.	
57.	A particle of mass when it completes		R moves with a consta	ant speed v. The work done	
	(A) $\frac{Mv^2}{R} \times 2\pi R$	(B) $\frac{1}{2}$ Mv <sup>2</sup>	(C) $\frac{Mv^2}{R} \times \pi R$	(D) Zero	
58.		the either side of the If R is the resultant fo		le mass suspended by string (T) in string will be	
		32 gwt	S 50 <sup>p</sup> ewt		
FO	(A) 26 gwt	(B) 41 gwt	(C) 82 gwt	(D) 16 gwt	
59.	. Magnetism in a magnet is mainly due to (A) Orbital motion of electron (B) The spin motion (C) The nuclear charge (D) Nucleus density				
60.	• •	ich changes in focal le		(D) Ciliany musclos	
61.	(A) Iris An anchored boat	(B) Cornea is rocked by waves wh	(C) Pupil	(D) Ciliary muscles apart and whose velocity is	
01.		do the crest reach in			
	(A) 0.35 sec	(B) 4 sec	(C) 75 sec	(D) 2500 sec	

62.	The atmospheric pre	essure at the surface o	fearth is about	
02.	(A) $10^3$ N/m <sup>2</sup>			(D) 10 <sup>-5</sup> N/m <sup>2</sup>
63.	( )	which works on the phe		
	conductor in magne			
	(A) Generator	(B) Accelerator	(C) Motor	(D) Transformer
		Chem	istry	
C A	) M/h; oh of the fellow:	a suill shour Turadall a	ffaat.	
64.	(A) Milk + H <sub>2</sub> O	ing will show Tyndall e (B) Salt + H2O	(C) CuSO4 + H2O	(D) Alcohol + H2O
65.			· ·	y applying high pressure?
	(A) N <sub>2</sub> O <sub>4</sub> (g) 4 2N	O <sub>2</sub> (g)	(B) $H_2(g)+Cl_2(g)$	2HCl (g)
	(C) $PCl_3(g)+Cl_2(g)$	PCl <sub>5</sub> (g)	(D) $N_2(g)+3H_2(g)$	2NH <sub>3</sub> (g)
	(A) A	(B) B	(C) C	(D) D
66.	Non-metals react wi	ith oxygen to form o	or Oxides	
		B) Acidic, Basic (C) Basi	c, neutral (D)	
67.	Basic, Acidic Which sample at STI	P has same number of	molecules as 51 of NO	$\sigma(\sigma)$ has at STP
07.	(A) 5g of $H_2(g)$		of methane (g)	2(6) 1103 01 511
	(C) 5 moles of O <sub>2</sub> (g)		(D) 5 ×10 <sub>23</sub> molecule	es of CO <sub>2</sub> (g)
68.	Arrange the gases p	resent in air in increasi	ng order of boiling poi	nts.
	(A) $N_2 < Ar < O_2$	(B) Ar < N <sub>2</sub> < O <sub>2</sub>	(C) O <sub>2</sub> < Ar <n<sub>2</n<sub>	(D) $N_2 < O_2 < Ar$
69.	How many electrons	s are present in 0.1 mo	les of $[PO]_4^{-3}$ ions.	
	(A) 50×6.023 10 <sup>23</sup>	i i i	(B) 5×6.023 10 <sup>23</sup>	
_	(C) 1×6.023 10 <sup>23</sup>		(D) 3×6.023 10 <sup>23</sup>	
70.	Esters are sweet-sm (i) Formation of alco	elling substances. The	se when treated with N	NaOh then:
		boxylic acid and water		
		nown as sponification		
		ong (B) (ii) and (iii) are	wrong (C) Only (ii) is	
71.	wrong (D) Only (iii) i Arrange Li, C, B and	Be according to increa	sing order of their ato	mic radii.
		(B) C < B < Be < Li	-	(D) B < C < Be < Li
72.	Which of the followi	ing salt when dissolved	l in distilled water will	give pH less than 7
	(A) Na2SO4	(B) CH₃COONa (C) (N	H4 )2 SO4 (D) NaCl	

73.	Match the following:			
	(i) Ant sting	(A) Oxalic ac	id	
	(ii) Tomato	(B) Latic acid		
	(iii) Tamarind	(C) Methano		
	(iv) Sour Milk (Curd)	(D) Tartaric a		
	(A) (i)-C, (ii)-A, (iii)-B, (iv)-D		(B) (i)-C, (ii)-A, (iii)-	
74.	(C) (i)-A, (ii)-C, (iii)-D, (iv)-B Which of the following state	omonts aro cor	(D) (i)-A, (ii)-C, (iii)- roct about a (alpha)	
74.	scattering experiment.		iect about & (alpha)	particle
	(A) Most of the fast moving	$\alpha$ particles pas	sed straight through	gold foil.
	(B) Some of $\alpha$ -particles we			-
	(C) Surprisingle one out od			
	(-)			
	(A) (i) and (iii) are correct (B	) (i) and (ii) are	correct (C) (i), (ii) an	d (iii)
	are correct (D) Only (ii) is co			
75.	Match the following correct	•		
	(i) Washing soda		pic substance	
	(ii) Sulphuric Acid		er of crystallization	tion of colt
	(iii) Suspension (iv) Colloid		on takes place on addi ettle down on standin	
	(A) I (w) II (x) III (y) IV (z)	(2) 1 81 11 12 3 3	(B) I (x) II (w) III (z) I	-
	(C) I (z) II (y) III (x) IV (w)		(D) I (x) II (z) III (w) I	
76.	In an open vessel, the liquic	keeps on evan		
	from surrounding to regain			
	from the surrounding make	the surroundi	ngs (i) Hot (ii) (	Cold (iii) No change in
	temperature of surrounding	g (iv) It depend	s upon the nature of	liquid.
	Out of (i), (ii), (iii), (iv) which	n is correct to fi	ll the above stateme	nt.
	(A) Only (i) is correct (B) (i) a	and (ii) are corr	ect (C) (ii) is correct (	(D) All
	are correct			(-)····
		Biol	•	
77.	Which one of the following	statements is r	not true about Darwi	n theory.
	(A) Rapid Multiplication (B)	Struggle for Ex	istence (C) Environm	ental
	effect (D) Origin of new spe		( )	
78.	The end product of respirat	ion in plants ar	e	
	(A) CO <sub>2</sub> , H <sub>2</sub> O and energy (B)	Starch and Ox	vgen (C) Sugar and	
	Oxygen (D) H <sub>2</sub> O and energy			
79.	Which one of the following	is known as en	ergy currency of a ce	11
	(A) ATP (B) AI		(C) Pyruvate	(D) Glucose
80.	F <sub>1</sub> particle or oxysome are p	present in		
	(A) Endoplasmic reticulum		(B) Chloroplast	
	(C) Mitochondria		(D) Golgi complex	

81. DNA replication mainly takes place in(A) G1 Phase(B) G2 Phase

(C) S Phase

(D) M Phase

82.	Out of the following which hormone regulates carbohydrates protein and fat metabolism in the body so as to provide the best balance for growth
	(A) Insulin (B) Thyroxin (C) Oestrogen (D) Adrenaline
83.	In human beings, if the egg is not fertilized, it lives for about
	(A) One day (B) Three days (C) Five days (D) Eight days
84.	The cell wall of fungi is made of tough complex sugar called
	(A) Cellulose (B) Chitin (C) Pectin (D) Lignin
85.	Lung fish is connecting link between
	0
	(A) Fishes and arthropods (B) Fishes and annelids (C) Fishes and
	molluscs (D) Fishes and amphibians
86.	The virus causing Japanese encephalitis or brain fever will enter the body through
	(A) Sexual Organs (B) Mosquito bite (C) Lungs (D) Air
87.	The direction of Impulse in a typical neuron is from
	(A) Dendron to axon (B) Axon to Dendron
	(C) Axon to nucleus (D) Axon to medullary sheath
88.	A human female with Turner's syndrome.
	(A) Has one additional X chromosome (B) Has 45 chromosome with XO
	(C) Exhibits male character
	(D) Is able to produce children with normal husband
89.	The correct pathway of blood in circulatory system is
	(A) Auricles $\longrightarrow$ Ventricles $\longrightarrow$ Arteries $\longrightarrow$ Veins
	(B) Ventricles $\longrightarrow$ Auricles $\longrightarrow$ Veins $\longrightarrow$ Arteries
	(C) Ventricles $\longrightarrow$ Veins $\longrightarrow$ Arteries $\longrightarrow$ Auricles
	(D) Veins $\longrightarrow$ Ventricles $\longrightarrow$ Auricles $\longrightarrow$ Arteries
90.	In lining organisms, an active immune system recruits many cells to the affected tissue to
	kill off the disease causing microbes. This recruitment process is called
	(A) Syphilis (B) Inflammation (C) Encephalitis (D) SARS

#### **Mathematics**

If a, b, c be the first, second and the last term of an A.P., then the sum of this A.P. 91.

(A) is 
$$\frac{(a-c)(b+c-2a)}{2(b-a)}$$
  
(B) is  $\frac{(a+c)(b+c+2a)}{2(b-a)}$   
(C) is  $(a+c)(b+c-2a)$   
 $2(b-a)$   
(D) Cannot be determined unless some more information is given about the AP

92.

For what value of k,  $(4 - k)x^2 + (2k + 4)x + (8k + 1) = 0$  is a perfect square? (A) 0 (B) 3 (C) 0, 3 both (D) -3,3 bot (D) –3,3 both

If one of the zeros of the cubic polynomial  $x^3 + ax^2 + bx + c$  is -1, then product of the other 93.

two zeroes is			
(A) b – a + 1	(B) b − a −1	(C) a – b +1	(D) a – b –1

			(n - 2	n + 5) 8
94.	For how many values o	of n (where n is an integer	), the expression $(13 - 3)$	112 + 52 is an 2n -1
	integer			
	(A) 8	(B) 4	(C) 11	(D) 28
95.	In the given figure A the area of the shad	BCD is a rectangle and led region	all measurements are	in centimeters. Find
	(A) 240 cm <sup>2</sup>		$D = G + \xrightarrow{8} C$	
	(B) 205 cm <sup>2</sup>		12	
	(C) 105 cm <sup>2</sup>		7	
	(D) 95 cm <sup>2</sup>	2	Ato P ta B	
96.	· · · · ·	en sec $\phi$ + tan <sup>3</sup> $\phi$ cosec $\phi$ is		
	, ,	(B) $(2 - e_2)^{3/2}$	, , ,	(D) $(1 + e_2)^{3/2}$
97.	If a, b, c, d, e are five	e consecutive odd num		
	(A) 5 a +4 (	(B) <u>abcde</u> 5	(C) 5 a + b + c + d +e	) (D) a + 4
98.	A number when div	_		same number is divided
	by 19, what would b			
	(A) 9	(B) 8	(C) 18	(D) 11
99.	A sphere and a cube sphere to that of the	e cube.		tio of the volume of the
	(A) 6:π	(B) √ <u>6:</u> √π		(D) 6: √π
100.		ose vertex A lies on th (p/2,1). Find the value		tes of the mid-point of
	(A) $\pm 6$	(B) $\pm 20$	(C) ±10	(D) ±36
101.	The set of values of	k for which the roots o	of the equation $3x^2 + 2$	x + (K - 1)K = 0 are of
	opposite sign is		( )	( )
	(A) 0,1	(B) 0,1	(C) (-1,1)	(D) -1,0
102.	The value of 4 $\sqrt{3}$ +	129-723 is		
	(A) 9 √3	(B) 9	(C) 9+ $\sqrt{3}$	(D) 9– √3
103.		Z		
		YX		
	In above figure, X is	a point in the interior	of square ABCD. AXYZ	is also a square. IF DY =
	3cm, AZ = 2 cm ther	-		
404	(A) 5 cm	(B) 6 cm	(C) 7 cm	(D) 8 cm
104.	-	angle is increased 3/2 t e in the area of the tria	-	gth, then the
	(A) 125%	(B) 150%	(C) 300%	(D) 50%
105.		ombus is 60 <sup>0</sup> , then the	ratio of the lengths of	its diagonals is
	(A) √6 :1	(B) 2:1	(C) 2: 3	(D) √8 :1

In a right angle triangle, the sides of the right angle are of lengths 16 cm and 8 cm, then 106. the side of the largest square that can be inscribed in the triangle is

(A) 
$$\frac{16}{3}$$
 (B) 8 3 cm (C) 8 5 cm (D) 8 cm

If a, b, c, d are the sides of a right angle triangle, where c is the hypotenuse, then 107. the radius 'r' of the incircle of this triangle is

(A) 
$$r = \frac{a+b+c}{2}$$
 (B)  $r = \frac{a-b+c}{2}$  (C)  $r = \frac{a+b-c}{2}$  (D)  $r = \frac{a-b-c}{2}$ 

A person wrote 15 numbers on a circle. Each number was the arthimetic mean of its 108. two neighbours. If one of these numbers was 6, then the sum of all the numbers written on the circle is (4) 120 (C) 100(D) 90 (B) 189

109.	(A) 120	(B) 189	(C) 100	(D) 90
110.	of triangle APB is 24 (A) 20cm <sup>2</sup>	onals of a cyclic quadr cm <sup>2</sup> . If AB = 8 cm and ( (B) 12 cm <sup>2</sup> The probability that t	$CD = 5 cm, calculate th(C) 9 \frac{3}{8} cm^2$	e area of ΔDPC (D) 9.5 cm <sup>2</sup>
	(A) $\frac{1}{6}$	(B) <u>5</u> 12	(C) $\frac{1}{2}$	(D) <u>7</u> 9
		Histo	ory	
111.	The act of Union bet United Kingdom of t	ween England and he Great Britain.	resulted in the f	ormation of the
112.	(A) Northern Ireland Who led the Scholar		(C) Scotland	(D) Jersey
	(A) Pham Boi Chau (C) The official at the	e imperial court	(B) Phan Chu Trinh (D) The people of Mo	ekong Delta
113.	(A) Mahatma Gandh (B) Mahatma Gandh (C) Mahatma Gandh	signed between i Motilal Ne i Lord Irwin i B.R. Ambed i Mount bat	hru dkar	-
114.	The oldest Japanese (A) AD 686	book Diamod Sutra wa (B) AD 868	as printed in (C) AD 668	(D) AD 866
115.	How many years did	it take to form Repub	lic of Vietnam?	. ,
	(A) 30	(B) 29	(C) 19	(D) 25

116. Consider the following events of 1919 A.D. 1. Rowlatt Act 2. Hunter Report 3. Jallianwala Bagh Massacre 4. Return of Knighthood by Rabindranath Tagore Their correct sequence is (A) A, B, C, D (B) A, C, D, B (C) B, A, C, D (D) C, A, B, D What was the aim of temperature movement? 117. (B) Introduce Rent control (A) Decrease unemployment (C) To stop criminal activities (D) To reduce the consumption of alcoholic drinks Which French artist prepared a series of four prints visualizing his dream of a world 118. made up of 'Democratic and Social Republics'? (A) Frederic Sorrieu (B) Andreas Rebmann (C) Karl Kaspar Fritz (D) Giuseppe Mazzini By the 18<sup>th</sup> century, which of the following commodities were produced on 119. large plantations in America by slave labour and exported to other countries? (A) Grains such as wheat and barley (B) Tropical fruits such as bananas and oranges. (C) Animal products such as wool and beef. (D) Cash crops such as sugar and cotton. By which treaty Clive secured and Diwani of Bengal, Bihar and Orissa? 120. (A) Treaty of Plassey (B) Treaty of Allahabad (C) Treaty of Bengal (D) Treaty of Baskar 121. Who is the author of Jane Eyre? (A) Jane Austen (B) Charlotte Bronte (C) William Hogarta (D) Samuel Richardson Geography 122. Which of the following is correct about the Konkan coastal plain? (A) Stretches from Mumbai to Goa. (B) Stretches from Daman to Goa. (C) Stretches from Goa to Mangalore (D) Stretches from Mangalore to Kanya Kumari 123. Ravi, Jehlum and Chenab are the distributaries of which river? (D) Godavari (A) Ganga (B) Brahamputra (C) Indus Which state of India has more percentage of area under forest? 124. (B) Punjab (C) West Bengal (D) Tripura (A) Harvana 125. Which of the following is not a part of SAARC (South Asian Association for Regional Cooperation) (A) India (B) Nepal (C) Bangla Desh (D) China 126. IN which category does the Kailash mountain range fall in? (A) Block Mountain (B) Folded Mountain (C) Doem Mountain (D) Relict Mountain

- 127. What is the other name of Mangroves? (A) Mountainous Vegetation (B) Dry Vegetation (C) Monsoonal Vegetation (D) Littoral Vegetation 128. Sindri is famous for (A) Fertilizer Industry (B) Paper Industry (C) Silk Industry (D) Cement Industry 129. Which soil is formed differently from the other three soils? (A) Bhabar (B) Bangar (C) Regur (D) Khadar 130. Parkland, Steppes, Pampas, Campos and Veld are kept in which of the following categories? (D) Grassland (A) Mountains (B) Plateaus (C) Deserts Which of the following fact is correct for straight line drawn between Arunchal 131. Pradesh and Rann of Kachchh? (A) 3293 kilometers (B) 2933 kilometers (C) 2393 kilometers (D) 2923 kilometers 132. Which region normally experiences the convectional type of rainfall? (A) Equatorial Region (B) North Polar Region (C) South Polar Region (D) Glaciated Region **Civics** How many duties are registered in 51<sup>st</sup> article of Indian Constitution by 42<sup>nd</sup> amendment? 133. (D) 11 (A) 10 (B) 6 (C) 12 134. The President cannot proclaim General Emergency without directive from..... (A) The Attorney General (B) The Cabinet (C) The Chief Justice of Supreme Court. (D) The Chief Election Commissioner. 135. Provision of President's Emergency powers is taken from the constitution of ..... (A) South Africa (B) Ireland (C) Germany (D) Australia Who decides whether a particular Bill is Money Bill or an Ordinary one 136. (A) The President (B) The Finance Minister (C) The Speaker of Lok Sabha (D) The Prime Minister
- 137. Match the following:

**United Democratic Party** 1.

- West Bengal Α.
  - Β. Uttar Pradesh
    - Meghalaya
- 2. Muslim League Rashtriya Lok Dal 3.
- C. D. Kerala
- 4. Forward Block
- Amendment Act of 2003 limits the size of the ministry to ..... 138.
  - (A) 15% of the length of the legislative Assembly.
  - (B) 16% of the length of the legislative Assembly.
  - (C) 17% of the length of the legislative Assembly.
  - (D) 18% of the length of the legislative Assembly.

139. 140.	<ul> <li>(A) Union list has 47 subjects, State list has 97 subjects, concurrent list has 66 subjects.</li> <li>(B) Union list has 66 subjects, State list has 47 subjects, concurrent list has 97 subjects.</li> <li>(C) Union list has 97 subjects, State list has 66 subjects, concurrent list has 47 subjects.</li> <li>(D) Union list has 47 subjects, State list has 66 subjects, concurrent list has 97 subjects.</li> </ul>											
	<ul> <li>(A) Elected members of Lok Sabha.</li> <li>(B) Elected members of Rajya Sabha.</li> <li>(C) Elected members of Legislative Assembly.</li> <li>(D) Nominated members of Lok Sabha &amp; Rajya Sabha.</li> </ul>											
141.	There are members elected for P											
142.	(A) 13 (B) 14 Naturalised Citizenship cannot be acquired	(C) 10	(D) 15									
142.		(C) Jus-Sanguinis	(D) Conquest									
	Econo	mics										
143.	What is marginal propensity to save (M.P.	s.)										
		Υ ΔC										
	(A) $\frac{\Delta Y}{\Delta C}$ (B) $\frac{\Delta S}{\Delta Y}$ (C) $\Delta$	$\overline{\Delta S}$ (D) $\overline{\Delta Y}$										
144.	Workers in the sector do not produce	e physical goods.										
	(A) Primary Sector (B) Secondary sector (C) Final Sector	) Tertiary Sector (D)										
145.	To grow more than one crop on a piece of la	nd during a year is kno	wn as									
	(A) Kharif crop (B) Multiple Cropping (C) Ra Good Crop	abi Crop (D)										
146.	Who is the chairman of the Planning Comr	nission										
4 4 7	(A) N.S.S.O (B) Chief-Minister	(C) President	(D) Prime Minister									
147.	Factors of production and their Price is giv											
	I. Land Wages III. Labour Interest	II. Capital Rent IV. Entrepreneur	Profit									
	Which matching is wrong?	IV. LINTepreneur										
	(A) I, II, IV (B) II, III, IV	(C) I, II, III	(D) II, III, IV									
148.	From the following groups which has all th	• • •										
	(A) Production, Consumption, Social Servic											
	(B) Production, Consumption, Exchange, D	istribution.										
	(C) Production, Consumption, Exchange, Se	ocial Service.										
	(D) Consumption, Exchange, Distribution, S											
149.	On the basis of ownership types if econom	•										
	(A) Capitalistic, Socialistic, Developed-Ecor	•										
	(B) Socialistic, Mixed, Developed-Economy											
	<ul><li>(C) Capitalistic, Socialistic, Mixed-Economy</li><li>(D) Mixed, Developed, Developing-Econom</li></ul>											
		'y										

150. In India who directly controls the "Monetary Policy"?

- (A) Finance Department of India
- (B) Reserve Bank of India
- (C) State Bank of India
- (D) Prime Minister of India

### LANGUAGE TEST English

Directions (Q.151-155): Read the comprehension passage and answer the following questions:

At this stage of civilization, when many nations are brought in to close and vital contact for good and evil, it is essential, as never before, that their gross ignorance of one another should be diminished, that they should begin to understand a little of one another's historical experience and resulting mentality. It is the fault of the English to expect the people of other countries to react as they do, to political and international situations. Our genuine goodwill and good intentions are often brought to nothing, because we expect other people to be like us. This would be corrected if we knew the history, not necessarily in detail but in broad outlines, of the social and political conditions which have given to each nation its present character.

(B) Us

- 151. According to the author 'Mentality' of a nation is mainly product of its.....(A) Present character (B) International position (C) Politics (D) History
- 152. The character of a nation is the result of its...(A) Gross ignorance (B) Cultural heritage (C) Sociopolitical conditions (D) Mentality
- 153. The need for a greater understanding between nations...
  - (A) Is more today than ever before
  - (B) Was always there
  - (C) Is no longer there
  - (D) Will always be there
- 154. Englishmen like others to react to political situations like....
  - (A) Others
  - (C) Themselves (D) Each other
- 155. According to the author his countrymen should...
  - (A) Read the story of other nations
  - (B) Not react to other actions
  - (C) Have a better understanding of other nations
  - (D) Have vital contacts with other nations

Directions (Q.156-162): Read the comprehension passage and answer the following questions:

Marie curie was one of the most accomplished scientists in history. Together with her husband, Pierre, she discovered radium, and element widely used for treating cancer, and studied uranium and other radioactive substances. Pierre and Marie's amicable collaboration later helped to unlock the secrets of the atom.

Marie was born in 1867 in Warsaw, Poland, where her father was a professor of Physics. At an early age, she displayed a brilliant mind and blithe personality. Her great exuberance for learning prompted her to continue with her studies after high school. She became disgruntled, however, when she learned that the university in Warsaw was closed to women, Determined to receive a higher education, she defiantly left Poland and in 1891 entered the Sorbonne, a French university, where she earned her master's degree and doctorate in Physics.

Marie was fortunate to have studies at the Sorbonne with some of the greatest scientists of her day, one of whom was Pierre Curie. Marie and Pierre were married in 1895 and spent many productive years working together in the physics laboratory. A short time after they discovered radium, Pierre was killed by horse drawn wagon in 1906. Marie was stunned by this horrible misfortune and endured heartbreaking anguish. Despondently she recalled their close relationship and joy that they had shared in scientific research. The fact that she had two young daughters to raise by herself greatly increased her distress.

Curie's feeling of desolation finally began to fade when she was asked to succeed her husband as a Physics professor at the Surbonne. She was the first woman to be given Professorship at the world famous university. In 1911 she received the Noble prize in chemistry for isolating radium. Although Marie Curie eventually suffered a fatal illness from her long exposure to radium, she never become disillusioned about her work, Regardless of the consequence, she had dedicated herself to science and to reveling the mysteries of the physical world.

- 156. The Curies \_\_\_\_\_ collaboration helped to unlock the secrets of the atoms. (A) Friendly (B) Competitive (C) Courteous (D) Industrious
- 157. Marie had a bright mind and a \_\_\_\_\_ personality.(A) Strong (B) Lighthearted (C) humorous (D) Strange
- 159. Marie \_\_\_\_\_ by leaving Poland and traveling to France to enter the Sorbonne.
   (A) Challenged authority (B) Showed intelligence (C) Behaved (D)
   Was distressed
- 160. \_\_\_\_\_\_ she remembered their joy together.(A) Dejectedly (B) Worried (C) Tearfully (D) Happily

- 161. Her \_\_\_\_\_ began to fade when she returned to the Sorbonne o succeed her husband.
   (A) Misfortune (B) Anger
   (C) Wretchedness (D) Disappointment
- 162. Even though she became fatally ill from working with radium, Marie Curie was never

A) Troubled	(B) Worried
C) Disappointed	(D) Disturbed

Directions (Q.163-167): Read the comprehension passage and answer the following questions:

Waste management are a set of activities that include collection, transportation, treatment and disposal of waste material. There are four methods of managing waste. The first one is Recycling which means turning waste into new material but some argue that collecting, processing and converting waste uses more energy than land filling. The second method Land filling is compacting garbage and burning it in a hole. Large levers are placed in the bottom of landfills to avoid toxic garbage juice to go into ground water but these levers always don't work. Composting, the third method is piling up of organic matter and decomposing it to make the soil rich but plastic garbage makes it hard to compost on a large scale. The last method Incinerate waste can be done either by creating or harvesting a fuel and burning it or by burning the waste directly. Unfortunately burning garbage pollutes the air.

- 163. What is the main purpose behind the author's writing this?
  - (A) To convince the readers to recycle and compost
  - (B) To persuade readers that recycling is a waste of resources.
  - (C) To compare and contrast recycling and land filling.
  - (D) To inform readers of methods of waste management.
- 164. Why composting is not feasible on a large scale?
  - (A) People wouldn't want to touch all of that gross rotting food.
  - (B) It would smell too bad in densely populated cities
  - (C) It would attract rodents that would spread disease
  - (D) Plastic would get into the compost and turn it into a pollutant
- 165. What of the following expresses the best meaning of the word 'compacted'?
  - (A) Garbage is burned before it is thrown in a hole
  - (B) Garbage is put in trucks before it is thrown in a hole
  - (C) Garbage is crushed before it is thrown in a hole
  - (D) Garbage is put in a can before it is thrown in a hole
- 166. What expresses the main idea in the second paragraph?
  - (A) Land fills take up a lot of space.
  - (B) Composting is good for the soil but it can be hard to do
  - (C) The process of composting is very complicated and scientific.
  - (D) There is lot of plastic garbage in landfills

167. Which conclusion could be best supported with text from the passage?

(A) Each method of waste management has its draw backs.

(B) Recycling is without a doubt the best way to handle waste.

(C) Incineration is the best way to process waste.

(D) All large cities should create massive compost piles.

**Directions (Q.168-169):** The following six sentences come from a paragraph. The first and the last sentences are given. Choose the order in which the four sentences (PQRS) should appear to complete the paragraph.

168. S1: In 1945, America faced two powerful enemies in the world war.

	S2:											
	S3:											
	S4:											
	S5:											
	S6:											
	S6: This was the weapon that ended the second World War.											
	P: America found conventional weapons insufficient to crush them.											
	Q: These were Germany and Japan who posed strong opposition to America.											
	R: The result of this was the production of the atom bomb.											
				-			h and produ	ice a new dea	dly			
	weapo	-					·					
	•	roper sequen	ce should	d be								
	1.	QPRS	2.	QPSR	3.	PQRS	4.	PQSR				
169.	S1: We	e are what ou	ur though	nts have mad	e us.							
	S3:											
	S4:											
	S6:											
				vail. the chara	acter beco	mes good.	if bad it be	comes bad.				
		S6: If good impressions prevail, the character becomes good, if bad it becomes bad. P: And so take care of what you think.										
				determined l	ov the sum	n total of th	nese impres	sions.				
								on the mind-s	stuff.			
		ught lives, th	-	-	,		<b>I</b>					
		roper sequen	-									
	1.	SPRQ			2		4	DODC				
	<b></b>	SPRQ	2.	RQSP	3.	PRSQ	4.	RQPS				

**Directions (Q.170-171):** The following questions have the second sentence missing. Choose the appropriate sentence from the given options to complete it.

170. A smoke oozed up between the planks.

В -----

- C Everyone now knew there was fire in board.
- (A) People stayed wherever they were to enjoy the scene.
- (B) Flames broke out here and there.
- (C) People were ready to go for sky diving.
- (D) It was a mesmerizing site.
- 171. A- When a satellite is launched, the rocket begins by going slowly upwards through the air.

В -----

C However the higher it goes, the less air it meets.

- (A) As a result there is less friction.
- (B) Consequently, the rocket does not become too hot.

(C) As a result the atmosphere become thinner.

(D) As the rocket goes higher, it travels faster.

**Directions (Q.172-180):** Choose the word which best fills the blank from the four options given below.

172.	The terrorists were arrested for their	- activities
	(A) Subservient	(B) Subordinate
	(C) Subsidiary	(D) Subversive
173.	The role of Zoo is preserve animals.	
	(A) Extinct	(B) Common
	(C) Rare	(D) Dead
174.	The manner in which bombs exploded in five	ve trains within a short span of time suggested
	that it was part of a	
	(A) Game	(B) Villainy
	(C) Conspiracy	(D) Sabotage
175.	The non-cooperative attitude of the member	ers can only the image of the society.
	(A) Improve	(B) Degrade
	(C) Defame	(D) Spoil
176.	The volcanic was cause of great dev	astation.
	(A) Outburst	(B) Eruption
	(C) Erosion	(D) Movement
177.	Eye-witness, the news reporter ga	ve a graphic description of how fire broke out.
	(A) Reporting (B) Observing (C) Seeing (D) C	luoting

- 178. Diseases are ----- through contact with infected animals.(A) Transmitted (B) Transported (C) Transferred (D) Transplanted
- 179. The Prime Minister ------ the states that the unrevised policy was not meant to infringe upon their rights.
  - (A) Assured (C) Attributed

- (B) Declared
- (D) Suggested
- 180. He ------ friends has come back.(A) And his(C) or his
- (B) Along with his
- (D) along with them

Directions (Q.181-182): Choose the appropriate phrasal verb to complete the sentences.

- 181. Has the advertising agency ------ the new promotional material yet?(A) Dropped off (B) Dropped in (C) Dropped out (D) Dropped by
- 182. We have decided to ------ billboards and use more double page spreads instead.(A) Back off (B) Come down with (C) Cut back on (D) Drop off

**Directions (Q.183-184):** In the following passage there are some numbered blanks. Fill in the blanks by selecting the most appropriate word for each blanks from the given options:

Jamshedji Tata is ----- 183 ------ to be the path-finder of modern industrial builders. He is known as the grandfather of the Indian industry for his acumen and enthusiasm. Nobody else could have ------ 184 ----- of the new industries started by Jamshedji at that time when industrial ------ 185 ----and revolution was yet to come to India. Jamshedji's father Nasarvanji Tata used to trade in jute with China and Britain. He started ----- 186 -----from India. Jamshedji started a cloth mill in Nagpur more than hundred years ago. At that time almost all the ----- 187 ------ used to come from Lancashire in England. What Jamshedji ----- 188 ----- was praiseworthy.

- (A) Reward
   (A) Absolved
   (A) Imports
   (A) Export
- (B) Agreed
  (B) Thought
  (B) Acts
  (B) Industries
- 187. (A) Goods 188. (A) Did
- (B) Imports (B) Dreamt
- (C) Empowered
  (C) Ventured
  (C) Machinery
  (C) Import
  (C) Cloth
- (C) Agreed

- (D) Considered
- (D) Set
- (D) Awakening
- (D) Trade
- (D) Machines
- (D) Told

Directions (Q.189-195): Select the meaning of given phrases/idioms from the given options.

189. Real friends never leave us alone in <u>close quarters.</u>
(A) Close examination (B) Live near to each other (C) Live far to each other (D) In love

- 190. One the eve of inspection everything was kept in <u>apple pie order</u>.(A) In random order (B) Related to fruits packing (C) Related to dry fruits packing. (D) In perfect order.
- 191. To have passed with <u>'flying colours'</u>
  (A) Has excelled in art (B) Has got mediocre grades (C) Has just scraped through (D) Has done very well
- 192. Reenu is very popular for her <u>above board</u> conduct.
  (A) Boasting person (B) Honest and straight forward (C) A man with arrogance (D) A dishonest person
- 193. <u>Once in blue moon</u>, we meet each other.
  (A) Frequently
  (C) Very seldom indeed
- (B) Hardly ever
- (D) In the light of a blue moon.
- 194. The officer took him to task.(A) Promoted him
- (B) Rebuked him (D) Praised him
- (C) Dismissed him195. Why do you wish to tread on the toes?
  - (A) To give offence to them
  - (B) To follow them grudging
  - (C) To treat them indifferently
  - (D) TO be kicked by them

Directions (Q.196-197): Choose the correct antonyms for the underlined words.

- 196. I want to <u>pursue</u> my studies(A) Prolong (B) Discontinue (C) Continue (D) Discomfort
- 197. The student's constant and <u>diligent</u> efforts brought him great success.(A) Lucky (B) Constant (C) Lazy (D) Slow

Directions (Q.198-200): Choose the correct synonyms for the underlines words.

- 198. He changed his statement so many times that his entire message became <u>ambiguous</u>.
  (A) Clear (B) Impressive (C) Unimpressive (D) Unclear
  199. Don't live under the <u>fallacy</u> that luck will for everything for you.
  - (A) Wrong belief (B) Weakness (C) Pleasure (D) Right belief
- 200.Quarrelling people created a lot of cacophony as so nobody was able to hear us.<br/>(A) Bitterness(B) Noise(C) Hearing(D) Fighting

## **National Talent Search Examination – 2015**

## State Level Test – 2015 Class – X MENTAL ABILITY AND SCHOLASTIC APTITUDE TEST

## **MENTAL ABILITY**

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

## SCHOLASTIC APTITUDE TEST PHYSICS

51. 58.	D C	52. 59.	ABCD B	53. 60.	B D	54. 61.	D B	55. 62.	C B	56. 63.	D C	57.	D
CHEMISTRY													
64. 71.	A B	65. 72.	A C	66. 73.	A B	67. 74.	B B	68. 75.	A B	69. 76.	B C	70.	C
BIOLOGY													
77. 84.	C B	78. 85.	A D	79. 86.	A B	80. 87.	C A	81. 88.	C B	82. 89.	B A	83. 90.	A B

Р	a	g	e	25
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## MATHEMATICS

91. 97. 104.	C ABCD A	92. 98. 105.	C A D	93. 99. 106.	A B A	94. 100. 107.	A A C	95. 101. 108.	C A D	96. 102. 109.	B B C	103. 110.	C B
	HISTORY												
111.	С	112.	С	113.	С	114.	В	115.	A	116.	В	117.	D
118.	A	119.	D	120.	В	121.	В						
					•	GEOGR/	АРНҮ						
122.	А	123.	С	124.	D	125.	D	126.	В	127.	D	128.	А
129.	С	130.	D	131.	В	132.	А						
						CIVIC	cs						
133.	ABCD	134.	В	135.	С	136.	С	137.	В	138.	А	139.	С
140.	С	141.	А	142.	С								
						ECONO	MICS						
143.	В	144.	С	145.	В	146.	D	147.	С	148.	В	149.	С
150.	В												
					LA	NGUAG							
						ENGL	ISH						
151.		152.		153.		154.		155.	С	156.	А	157.	В
158.		159.		160.	A	161.		162.	С	163.	D		D
165.		166.	В	167.		168.		169.		170.		171.	
172.		173.		174.		175.		176.		177.		178.	
179.		180.		181.		182.		183.		184.		185.	
186.		187.		188.		189.		190.		191.		192.	
193.		194.	В	195.	A	196.	В	197.	С	198.	U	199.	A
200.	В												