SCHOOL EDUCATION & LITERACY DEPARTMENT JHARKHAND, RANCHI

AND

JHARKHAND ACADEMIC COUNCIL RANCHI

NATIONAL TALENT SEARCH EXAMINATION (PRELIMINARY) 2015-16

Class X

MENTAL ABILITY AND SCHOLASTIC APTITUDE TEST

8TH NOVEMBER 2015

I	Roll No	:													
					J	HARK		ACAD	EMIC C	OUN	CIL				
	RANCHI, JHARKHAND NATIONAL TALENT SEARCH EXAMINATION (PRELIMINARY), 2015, 16														
								Class	X			1), 20	15-10		
				ME	NTAL A	BILIT	Y AND	SCHO	LASTIC	APTI	TUDE TE	ST			
Part	I:Time	45 Mir	nutes										Max.	Marks : 50)
Part Part	II : Time	45 MI 90 M	inutes linutes										мах. Max.	Marks : 50 Marks : 10))0
					I	NSTR	UCTION	NS TO	CANDI	DATE	S				
Rea sepe	d the folle erate O.I	owing M.R. A	instruct nswer-	ions c Sheet	arefully	befor	e you ai	nswer	the que	stions.	Answer	s are f	to be g	jiven on a	
1.	1. Please write your Roll No. very carefully (only one digit in one block) as given on your admission card. Please see that no block is left unfilled and even zeros appearing in the Roll No. are correctly transferred to the appropriate blocks on the booklet and on the answer-sheet. For example, a student appearing from Ranchi and Roll Number 21168899999 will make entries in the boxes as under :					on card. ferred to ing from									
	Roll No.			2	1	1	6	8	8	9	9	9	9	9	
	For all s	ubseq	uent pu	rpose	s your	Roll N	o. shall	remain	the sar	ne as	given on	the ac	Imissio	n card.	
2.	This te consist	st in th s of 10	iree Par)0 ques	ts. Pa tions.	rt I con	sists c	of 50 que	estions	s, Part II	consi	sts of 50 o	questio	ons and	d Part III	
3.	All que	stions	in Part	I, Part	II and	Part II	I carry c	ne ma	irk each	and a	ire compu	lsory.			
4.	Since a beginni	all ques ng to a	stions a answer	re con it.	npulsoi	y, do	not try to	o read	through	the w	hole ques	stion -	paper b	pefore	
5.	Begin v	vith the	e first q	uestio	n and k	eep o	n trying	one qu	uestion a	after a	nother till	you fi	nish bo	oth the par	rts.
6.	lf you d permitti	o not k ng, you	now the	answ me ba	er to ar ck to th	iy ques ie ques	stion, do stions wl	not sp nich yo	end muo u have l	ch time eft in tl	on it and he first ins	pass o tance	on to the and try	e next one them aga	:. Time in.
7.	Since t use of i	he time t by no	e allotte ot spend	ed to th ding to	ne two o muc	parts o h time	of this qu on any	uestion questio	n-paper on.	is very	limited, y	you sh	ould m	ake the b	est
8.	A blank	k page	has be	en pro	vided f	or rou	gh-work	at the	end of	each s	subject.				
9.	Remen instruc	nber y tions:	ou hav given b	e to n elow :	nark yo	our an	swers o	on a se	eparate	O.M.I	R. Answe	er-She	et as p	ber	
10.	.0. The answer-sheet has three parts : Part I, Part II and Part III corresponding to Part I, Part II and Part III of the test. The answer-sheet comprises three printed columns, one for answering the Mental Ability Test questions, one for answering Language Test and the other for answering the Scholastic Aptitude Test questions. The answers to the Mental Ability Test questions, Language Test questions and Scholastic Aptitude Test questions are to be marked on the respective columns. Marks will not be awarded, if the answers are not entered in proper columns.														
11.	1. Answer to each question is to be indicated by darkening the circle by blue or black ball pen only, the number of the correct alternative in the answer-sheet from amongst the ones given for the corresponding question in the test booklet					only, the ponding									
12.	Now tu	rn to th	he next	page	and sta	irt ans	wering t	he que	estions.						
N.B.	: Do no i	write a	nything	excep	ot the F	Roll Nu	ımber in	the Bo	ooklet.						

Part I Mental Ability Test

Time : 45 Minutes

Max Marks : 50

DIRECTION

- 1. All the questions of this part are related to the subjects of Mental Ability Test.
- 2. Before answering the questions, read these directions very carefully.
- 3. This part contains 50 questions.
- 4. Each question carries one mark.
- 5. Answer to all the question is essential.
- 6. The questions are to be answered on the O.M.R. Answer Sheet supplied in the Examination Hall.
- 7. Every question has four alternatives, of which only one is correct.
- 8. Answer to each question is to be indicated by darkening the circle, by blue or black ball pen only, the number of the correct alternative in the O.M.R. Answer Sheet from amongst the ones given for the corresponding question in the f est (Question) Booklet.

Please Turn Over the Page and Start Your Work.

MENTAL ABILITY TEST

Q1-5 In each of the following questions, a group of letters is given, which are numbered differently. Below four alternatives are given, containing combination of these numbers. Select that combination of numbers which forms a meaningful word.

1. Ans:	uteseqoin (1) 34512768 () Remark: No of lett	(2) 51432768 er given is 9 and no. of ((3) 21345678 digits are only 8.	(4) 86527143
2. Ans:	eeeadrls (1) 61234578 (4)	(2) 81245673	(3) 14526378	(4) 61724835
3. Ans:	reegnl (1) 7625341 (2)	(2) 4253167	(3) 1243765	(4) 4527361
4. Ans:	ceeubas (1) 5216473 (1)	(2) 7243156	(3) 6213475	(4) 5276314
5. Ans:	sgthin (1) 156234 (3)	(2) 156423	(3) 345621	(4) 453216

Q6-10 In each of the following questions, find the figure from the answer-set (i.e. 1, 2, 3 and 4) which will continue the series given in the problem -set (i.e. A, B, C, D and E)

6.



Ans: () Remark: Error in Question.

7.



8.





9.



10.





Q11-13 Study the pattern of numbers in the following questions and select the missing numbers in the place of questions mark (?). Mark the correct alternative on your answer-sheet as directed.



12.



2

Λ



6 x 4 - 5 + 2 ÷ 1 = ?

Ans:	(1) 10 (4)	(2) 11	(3) 12	(4) None		
19.	Choose the correct arra	angement of mathematic _★	al signs at the pl 、米 _コ 米 _二 米	ace of $*$ for equating the given equation.		
Ans:	(⁽⁾ :	(2) + , x, = , +	2 3 3 0 (3) =, x, +, ·	(d) x, =, +, +		
Q20-2	Q20-25 In each of the following questions, a series of number is given which follow certain rules. One of the numbers is missing. Choose the missing number from the alternatives given below and mark it on your answer-sheet as directed.					
20. Ans:	48, 24, 96, 192, ? (1) 98 (3)	(2) 90	(3) 96	(4) 76		
21. Ans:	3, 10, 101, ? (1) 10101 (3)	(2) 11012	(3) 10202	(4) 10201		
22. Ans:	33, 28, 24, ?, 19, 18 (1) 21 (1)	(2) 22	(3) 20	(4) 23		
23. Ans:	6, 10, 18, 34, ? (1) 46 (3)	(2) 56	(3) 66	(4) 76		
24. Ans:	4, 8, 12, 24, 36, ? (1) 72 (1)	(2) 48	(3) 60	(4) 144		
25. Ans:	1, 1, 9, 27, 25, ?, 49 (1) 625 (4)	(2) 250	(3) 225	(4) 125		
Q26-30) In the series given belo	w what will come in the p	place of question	n mark(?)		
26. Ans:	AEB, FJG, LPM, ? (1) NOP (2)	(2) SWT	(3) STW	(4) MNO		
27. Ans:	NOABOPBCPQCD??? (1) QRDE (1)	? (2)RTEF	(3) QSDE	(4) QRGI		
28. Ans:	KDW, MGT, OJO, ? (1) MNQ (4)	(2) QNM	(3) NMQ	(4) QMN		

29. Ans:	AE, CG, EI, GK, ? (1) MI (2)	(2) IM	(3) HM	(4) IL
30. Ans:	ADG, GJM, MPS, ? (1) SVW (2)	(2) SVY	(3) SUW	(4) SWY
Q31-34	Choose the correct wa	ter-image of the given w	ords/numbers fro	m amongst the alternatives.
31.	(1) KIVEK	(5) RIVER	(3) RIVAR	(4) KIVER
Ans:	(2)	~/	(7) 2.1.1.2	
32.	PR9YA			
Ans:	(1) ∀6አፈਖ਼ (2)	(5) PR9YA	(3) РЯСҮА	(4) PR6YA
33.	R1HU7			
Ans:	(1) _(1) RIHU7	(5) RIHU7	(3) RIHUT	(4) RIHUT
34.	WINER		-	
Ans:	(1) (1) WINER	(2) WINER	(3) WINER	(4) WINEK
Q35-36	Find the minor-image of	of x from 1, 2, 3 and 4 ar	nongst the given a	alternatives.
35.				



Q.37-41 In the diagram given below ∆ big triangle represents writer, rectangle represents poet, ∆ small triangle represents dramatician and O circle represents essay writer. Study the diagram and choose the correct answers of the given questions.



42. Which symbol is just opposite to symbol ' Δ '?



43. Which symbol is just opposite to symbol '+'?



- 48. M, N, P, R and T, each has got different marks in an exam, R has got more marks than M and T. N has got less marks than P. Who has got the highest marks in third rank?
 (1)N (2) R (3)M (4) Data in-sufficient
 Ans: (4)
- 49. Age of A is three times the age of B. Four years earlier, age of C was two times the age of A. After four year A will become 31 years old. What is the present age of B and C?

	(1)10, 50	(2)10, 45	(3) 9, 50	(4) 9, 45
Ans:	(3)			

50. The sum of present age of a father and son is 70 years. After 10 years the age of son will be half the age of his father. What is their present age? (1) 45 years 25 years (2) 50 years 20 years

- (1) 45 years, 25 years(3) 47 years, 23 years
- (c) 11 youro, 20 yo

(2) 50 years, 20 years (4) 50 years, 25 years

Ans:

Part III **Scholastic Aptitude Test**

Time: 90 Minutes

Max Marks: 100

be

- 1. All the questions of this part are related to the subjects of Scholastic Ability Test.
- 2. Before answering the questions, read these directions very carefully.
- 3. This part contains 100 questions.
- 4. Each question carries one mark.
- 5. Answer to all the questions is essential.
- 6. The subjects of Scholastic Aptitude Test are divided into three groups, as given below:

SI. No.	Title of the Group	Subjects covered under the group	Full Marks	No. Of Questions	Marks allotted to each Question	
(i)	Science Discipline	Physics, Chemistry and Biology	40	40	1 (One)	
(ii)	Mathematics	Mathematics	20	20	1 (One)	
(iii)	Social Science and Humanities	History, Geography Civics and Economics	40	40	1 (One)	

- 7. The questions are to be answered on the OMR Answer Sheet supplied in the Examination Hall.
- 8. Every question has four alternatives, of which only one is correct.
- 9. Answer to each question is to be indicated by darkening the circle, by blue or black ball pen only, the number of correct alternative in the OMR Answer Sheet from amongst the ones given for the corresponding question in the Test (Question) Booklet.

Please Turn Over the Page and Start Your Work.

1. A planet has density P, radius R and acceleration due to gravity as g. If the radius of the planet were doubled, keeping the density same, the acceleration due to gravity at the surface will be: $(1) 1 \alpha$

An	(1) 4g (3) g s: (2)	(2) 2g (4) g/2
2.	If the length of a simple p (1) halved	endulum is increased to 4 times its value, its time period wil (2) doubled
An	(3) becomes 2 times s: (2)	(4) reduces by 2

- 3. At the top of its path a projectile has (1) no acceleration
- (2) acceleration in the upward
- (3) acceleration in the downward direction (4) acceleration in the horizontal direction

Ans: (3)

- A real and enlarged image can be formed by using a 4. (1) convex mirror (2) plane mirror (3) concave mirror (4) either convex or a plane mirror Ans: (3)
- 5. For an incident ray directed towards centre of curvature of a spherical mirror the reflected ray (1) retraces its path (2) passes through focus (3) passes through the pole (4) becomes parallel to the principal axis (1)

Ans:

6. A stone is dropped into a well 44.1 m deep. The sound of splash is heard 0.13 seconds after the stone hits the water. What should be the velocity of sound in air?

(1) 319 m/s (3) 359 m/s Ans: (2)	(2) 339 m/s (4) 369 m/s			
 7. Out of two bulbs 50W – 220V and 100W – (a) connected in series (b) when connected in parallel 	220V, which one will glow brighter if			
(1) (a) 50 W (b) 100 W (3) (a) 100 W (b) 50 W Ans: (1)	(2) (a) 100 W (b) 100 W (4) none of the above			
8. Energy released per fission of a $_{92}U^{238}$ nu	cleus is nearly equal to			
(1) 931 MeV (3) 8 MeV Ans: (3)	(2)1000 MeV (4) 800 MeV			
9 How many planets are there in our solar sy	stem			
(1) 5 (3) 9	(2) 7 (4) 8			
Ans: (4)				
 10. In house electrical circuits the fuse wire for (1) High resistance – high melting point (3) Low resistance – low melting point Ans: (4) 	safety should be of (2) Low resistance – high melting point (4) High resistance – low melting point			
 11. Two wires each carrying current <i>i</i> are shown. The magnetic field at P (midway between the wires) is described by which statement: (1) Magnetic fields are in opposite direction and net filed is equal to zero (2) Magnetic fields due to two wires are in the same direction. (3) Magnetic fields are in opposite direction but net field is not zero (4) Magnetic fields are in the same direction and equal to two times the field due to one wire 				
Ans: (1)				
12. What is the equivalent resistance of the folloarrangement between M and N.(1) R/2(3) R/4	owing (2) R/3 (4) R/6 $(2) R/3 = R + R + R + R + R + R + R + R + R + R$			
Ans: (2)				
 13. An electron moving with uniform velocity in of uniform magnetic field along y direction. quantities is (are) non zero and remain con (I) Speed of the electron (II) Momentum of the electron (magnitude) (III) Kinetic energy of the electron (IV) Force of the electron (magnitude) 	x direction enters a region Which of the following stant? y x			
(1) only I and II (3) all four	(2) only III and IV (4) only II and IV			
Ans: (3)				

CHEMISTRY

of
of
of e
11
IX

Ans. (1)

23. Ans. (2	Mg dissolves in hot water to form (1) MgO (3) MgOH 2)	(2) Mg(OH) ₂ (4) MgOMg(OH) ₂
24.	While cooking, if the bottom of the vessel is (1)The food is not cooked completely (3)The fuel is wet	getting blackened on the outside, it means that (2)The fuel is not burning completely (4)The fuel is burning completely
Ans. (2	(c)	
25.	Identify the functional group present in the f	ollowing compound
	$CH_3 - CH_{ -} CH_2 - C - OH$	
Ama ((1)Aldehyde (3)Carboxyl	(2) Bromine(4) both bromine and carboxyl group
Alls. (4	+)	
26.	Identify the wrong sequence of the element i (1)Ca, Sr, Ba (3)N, P, As	n a group (2)Cu, Au, Ag (4)Cl, Br, 1
Ans. (2	2)	0
	BIO	LOGY
27.	Increase in the height of the plant is due to	(2) Cutakining
	(3)Gibberellins	(4)Ethylene
Ans:	(1)	
28	A sexual reproduction takes place through b	udding in :
20.	(1)Amoeba	(2) Yeast
Ans:	(3)Plasmodium (2)	(4) Leishmania
29.	Ginger is	
	(1) Root	(2)Stem
Ans:	(3) Fruit (2)	(4)None of these
30.	The liver stores food in the form of (1) Glucose	(2) Character
	(3) Albumen	(2) Glycogen (4) ATP
Ans:	(2)	
31	During photosynthesis, the owngon gas come	se from ·
51.	(1) CO_2	(2) Water

Ans:	(3) Both CO ₂ and water (2)	(4) Oxygen via air
32.	This is an artificial ecosystem (1) Pond	(2)Crop field
Ans:	(3) Lake (2)	(4)Forest
33.	Which of the following is a plant harmone ? (1) Insulin (3) Thyroxine	(2)Cytokinin (4)Oestrogen
Ans:	(2)	
34.	The centre of sense of smell in brain is (1)Midbrain (3)Cerebellum	(2)Olfactory lobes (4)Cerebrum
Ans:	(2)	
35.	The component of blood responsible for tran (1) RBC (3) Platelets	(2) WBC (4) All of these
Ans:	(1)	
36.	Concentration of urine depends on the prese (1)Thyroxin (3)ADH	nce of (2)Vasopressin (4)Melatonin
Ans:	(3)	
37.	Antioxidant vitamin is (1) 'A' (3) 'C'	(2)'E' (4)All of these
Ans:	(1)	
38.	Sardar Sarovar Dam built on river (1)Sutlej (3)Kaveri	(2)Ganga (4)Narmada
Ans:	(4)	
39.	Where is the cradle of human evolution ? (1)Asia (3)Australia	(2)America (4)Africa
Ans:	(4)	
40.	Which part of the brain is considered seat of (1) Cerebrum	intelligence and memory (2) Cerebellum

Ans:	(3) Medulla (1)	(4) All of these	
	MATHI	EMATICS	
41.	If α , β be the zeros of the polynomial $2x^2 +$	$5x + k$ such that $\alpha^2 + \beta^2 + \alpha\beta = 21/4$, then K = ?	
Ans:	(1)3 (3)-2 (4)	(2)-3 (4)2	
42.	The sum of three consecutive terms of an A 165. The middle term of the three terms is	P is 21 and the sum of the squares of these terms is	
	(1)10	(2) 4	
Anc:	(3)6	(4) /	
AII5.	(+)		
43.	If the sum of the first "p" terms of an AP is the same as the sum of its first "q" terms (where $p \neq q$) then sum of $(p+q)$ th term is		
	(1) 1	(2) 0	
Ans:	(3) p+q-1 (2)	(4) p+q+1	
44.	If $x^2 - 3x + 1 = 0$, then the value of $x^5 + x^{1/2}$ (1) 87	; ? (2) 123	
	(3) 135	(4) 201	
Ans:	(2)		
45.	If $\underline{xy} = a$, $\underline{xz} = b$ and $\underline{yz} = c$ Where x + y = x + z = y + z (1) $\frac{2abc}{ab + ac - bc}$ (2) $\frac{1}{ab + ac - bc}$	e a, b, c are non-zero numbers, then the value of x ? (2) $\frac{2abc}{ac + bc - ab}$ (4) $\frac{2abc}{ac + bc - ab}$	
Ans:	(3) $ab + bc + ac$ (2)	(4) $ab + bc - ac$	
16	If $\tan \theta + \cot \theta = 2$, then the value of $\tan^{23} \theta$	$1 \cot \frac{23}{2} 0 -$	
40.	$\begin{array}{c} \text{In tail } 0 + \cot \theta = 2, \text{ then the value of tail } 0 \\ (1)23 \end{array}$	(2) 4	
Ans:	(3)1 (4)	(4) 2	

47. The value of $\frac{1}{1 + \cot^2 \alpha} + \frac{1}{1 + \tan^2 \alpha}$ is

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

(3)
$$\frac{1}{4}$$
 (4) 2

Ans: (1)

48.	If $\cos 43^\circ = \frac{x}{\sqrt{x^2 + y^2}}$, then the value of the	an 47°.
	(1) $\frac{x}{y}$	(2) $\frac{y}{x}$
	(3) $\frac{x}{x^2 + y^2}$	$(4) \frac{y}{x^2 + y^2}$
Ans:	(1)	АТУ

49.	If $\sin 7x = \cos 11x$, then the	e value of $tan9x + \cot 9x$.
	(1) 4	(2) 2
	(3) 1	(4) 3
A		

Ans: (2)

50.	If $cos(\alpha + \beta) = 0$, then $sin(\alpha - \beta) = ?$	
	(1) $\cos 2\beta$	(2) $\cos \beta$
	(3) $\sin \alpha$	(4) $\sin 2\alpha$
Ans:	(1)	

51. In \triangle ABC, AD is median and E is the mid-point of AD. If BE is extended, it meets AC in F. AB = 8 cm, BC = 21 cm. and AC = 15 cm. then AF = ?



52. In the given figure, AD is the bisector of $\angle BAC$. If AB =m10 cm., AC = 6 cm. and BC = 12 cm., find BD





Ans:

Ans:

53. In the given figure, $\angle ACB = 90^{\circ}$ and $CD \perp AB$. then

(1) $CD^2 = BD.AD$	(2) $BC^2 = AD.BD$
(3) $AC^2 = AD.BC$	(4) $AD^2 = CD.BD$
(1)	

54. \triangle ABC is a right triangle in which $\angle C = 90^{\circ}$ and CD \perp AB. If BC = a, AC = b, AB = c and CD = p, then

(1) $p^2 = a^2 + b^2$ (2) $\frac{1}{p^2} = \frac{1}{a^2} + \frac{1}{b^2}$ (3) $\frac{1}{c^2} = \frac{1}{a^2} + \frac{1}{b^2}$ (4) None of these (2)

55. In the given figure, three circles with centres A, B, C respectively touch each other externally. If AB = 5 cm., BC = 7 cm. and CA = 6 cm., then the radius of the circle with centre A is



(2) 2 cm. (4) 3 cm.

Ans:

(2)

56. In the given figure ABCD is a square of side 14 cm. Find the area of the shaded region.

	(1) 56 $\rm cm^2$	$(2) 48 \text{ cm}^2$
	$(3) 42 \text{ cm}^2$	$(4) 44 \text{ cm}^2$
Ans:	(3)	
57.	A metallic spherical shell of internal and ext melted and recast into the form of a cone of (1)12 cm.	ernal diameters 4 cm. and 8 cm. respectively, is base diameter 8 cm. The height of the cone is (2) 14 cm.
Ans:	(3)15 cm. 0	(4) 18 cm.
AIIS.	(-)	
58. Ans:	In what ratio is the line segment joining the (1)3:2 (3)1:5 (2)	points A(-2, -3) and B(3, 7) divided by the y-axis. (2) 2:3 (4) 2:5
59.	Two coins are tossed simultaneously. What $(1)\frac{1}{4}$	is the probability or getting at least one head. (2) $\frac{1}{2}$
	$(3)\frac{3}{4}$	(4) 1
Ans:	(3)	
60. Ans:	The relation between mean, mode and media (1) Mode = $3 \times \text{Mean} - 2 \times \text{Median}$ (3) Mean = $3 \times \text{Median} - 2 \times \text{Mode}$ (2)	an is (2) Mode = 3 x Median -2 x Mean (4) Median = 3 x Mean - 2 x Mode
	S	ST
61.	Who was the Governor General of India in 1857 (A) Wellesley	? (B) Dalhousie
Ans:	(C) Canning	(D) Minto
,	(3)	
62. Ans:	Who was the First Indian Woman President in th (A) Mrs. Annie Besant (B) Sucheta Kripalani (C) Gandhi (1)	ne Indian National Congress ? Sarojini Naidu (D) Indira
63.	Who penned the following lines ? Sarfaroshi ki ta	amanna ab hamare dil me hai, Dekhana hai zor kitna
	paju-e qatil me nal. (A) Bismil	(B) Rai Guru

Ans:	(C) Bhagat Singh (1)	(D) Azad
64.	The state of Awadh was annexed into British dominion in (A) 1855 (C) 1856	n the year (B) 1854 (D) 1853
Ans:	(3)	
65.	In which of the following countries was "Gadar Party" est (A) U.S.A (B) Germany (C) Spain (D) France (1)	tablished ?
Ans:		
66.	Chauri Chaura is situated in the District of : (A) Deoria	(B) Gorakhpur
Ans:	(C) Maharajganj (2)	(D) Kushinagar
67.	The British Parliament passed the Regulating Act to improv Company in the year (A) 1773	e the administration of the East India (B) 1775
Ans:	(C) 1853 (1)	(D) 1855
68.	The First English factory in India was established at (A) Bombay	(B) Hooghly
Ans:	(C) Surat (3)	(D) Calcutta
69.	The Asiatic Society of Bengal was founded by (A) Raja Ram Mohan Roy	(B) Sir William Jones
Ans:	(C) W. W. Hunter (2)	(D) William Bentinck
70.	The founder of the autonomous kingdom of Avadh was - (A) Ahmad Shah Abdali (C) Saadat Khan Burhan Ul-Mulk	(B) Safdarjung (D) Zulfigur Khan
Ans:	(3)	
71.	The Permanent Settlement of 1793 vested ' the ownersh (A) Individual peasants (B) Zamindars (C) Village comm	nip of land in : unities (D)
Ans:		
72.	The year of Great Divide in Indian ' Demographic history (A) 1921 (C) 1951	is - (B) 1947 (D) 1982
Ans:	(1)	
73.	Who is the first woman Prime Minister of India ? (A) Meira Kumar	(B) Sonia Gandhi
Ans:	(C) Indira Gandhi (3)	(D) Annie Besant

74.	Lenin was born in the year : (A) 1870 (C) 1885	(B) 1880 (D) 1890
Ans:	(1)	
75. Ans:	The My Lai massacre occurred in (A) 1964 (C) 1968 (3)	(B) 1966 (D) 1970

(Geography)

76. Assertion (A) : Cotton textile industry is decentralised in India :

Reason (R) : Cotton textile industry is immensely influenced by market. Select the correct option from the given alternatives -

- (A) Both (A) and (R) are true, and (R) explains (A)
- (B) Both (A) and (R) are true but (R) does not explain (A)
- (C) (A) is true and (R) is false
- (D) (A) is false and (R) is-true

Ans: (4)

77. Assertion (A) : Public transport is given preference over private vehicles in large urban cities.

Reason (R) : Large number of private vehicles in urban area cause traffic congestion and pollution. Select the correct option from the given alternatives -

(A) Both (A) and (R) are true, and (R) explains (A)
(B) Both (A) and (R) are true but (R) does not explain (A)
(C) (A) is true and (R) is false
(D) (A) is false and (R) is-true
(4)

Ans:

78. Assertion (A) : India is rich in biodiversity.

Reason (R) : It is situated in tropical area. Select the correct option from the given alternatives -

(A) Both (A) and (R) are true, and (R) explains (A)
(B) Both (A) and (R) are true but (R) does not explain (A)
(C) (A) is true and (R) is false
(D) (A) is false and (R) is-true

Ans: (1)

79. Assertion (A) : Oil refineries in India are mostly along the sea coast.

Reason (R) : The climate along the sea coast is very congenial.

Select the correct option from the given alternatives -

(A) Both (A) and (R) are true, and (R) explains (A) (B) Both (A) and (R) are true but (R) does not explain (A)

(C) (A) is true and (R) is false

Ans:	(D) (A) is false and (R) is-true (3)	
80.	Match the textile centres indicated on the map of India with their representative names – (A) Chennai (C) Coimbatore	(I, II, III & IV) (B) Solapur (D) Mumbai
Ans:	(1) I C II B III A IV D (2) II C I A IV D III B (3) III D II C I A IV B (4) IV C III A II B I D (2) I II A II B	
81. Ans:	In South India, which soil is extensively found - (A) Laterite (C) Black cotton soil (3)	(B) Red soil (D) Alluvial soil
82. Ans:	Which of the following is an example of non-metallic minera (A) Gold (B) Bauxite (C) Graphite (D) Tin (3)	al -
83. Ans:	Which chemical is affecting fertility in frog community - (A) Bengin (C) Andrin (3)	(B) Urea (D) Phosphorus
84. Ans :	Which is the first expressway of India - (A) Delhi - Kolkata (C) Pune - Chennai (2)	(B) Mumbai - Pune (D) Delhi - Mumbai
85.	Over exploitation of underground water has led to increa (A) Bihar (B) Jharkhand (C) Assam (D) Sikkim (1)	ase in concentration of Fluoride in which state?
Ans:		
86. Ans:	Capital of Lakshdweep is (A) Kavaratti (C) Silvassa (1)	(B) Daman (D) Port Blair
87. Ans:	Production of wheat is highest in the state of (A) Punjab (C) Uttar Pradesh (1)	(B) Haryana (D) Madhya Pradesh

88. Ans:	Which mine is found in Khetri ? (A) Copper Mines (C) Bauxite Mines (1)	(B) Lignite Mines(D) Iron Ore Mines
89. Ano:	What is the longitudinal extent of India ? (A) 67o10' East to 96o27' East (C) 69o05' East to 98o22'	(B) 67o05' East to 96o22' East (D) 68o08' East to 97o25' East
Ans:	East (4)	
90. Ans:	Which of the following is the youngest structure of India (A) Greater Himalayas (C) Middle Himalayas (1)	? (B) Shiwalik Range (D) Peninsular India
	(CIVICS)	
91.	Panchayati Raj System is based on. (A) Centralisation of power (C) Co-operation with people and administrator	(B) Decentralisation of power(D) All of the above
Ans:	(2)	
92.	A member of Rajya Sabha is elected. (A) For six year (C) For four year	(B) For five year(D) No definite period
Ans:	(1)	
93. Ans:	Who appoints the Chief Election Commissioner of India? (A) Prime Minister (C) Parliament	(B) President (D) Chairman of Lok Sabha
94.	In India the maximum number of Lok Sabha and Rajya S (A) 500 and 250 (B) 525 (C) 537 and 275	Sabha members may be and 238 (D) 552 and 250
Ans:	(4)	
95.	The time period of A.P.J Abdul Kalam as President of India (A) 25 July 2000 to 25 July 2005 (B) 25 July 2001 to 25 July 2007 (D) 25 July 2003 to 25 July 2008 (3)	is : July 2006 (C) 25 July 2002 to 25
Ans:		
96. Ans [.]	The most appropriate measure of a country's economic gro (A) Gross Domestic product (B) Net Domestic product (C) Per Capital Product (1)	wth is C) Net national product (D)
97.	Finance is distributed between the centre and the states the following ?	on the recommendations of which of
Ans:	(A) Planning commission(C) Finance Commission(1)	(B) Public Accounts Committee(D) National Development Council

98.	The first Agricultural University of the (A) J.N.K.V., Jabalpur (C) P.A.U.,	country is -	(B) G.B.P.A.U., Pant Na	gar
Ans:	Ludniana (2)		(D) RA.U., Dikanel	
99.	Who amongst the following is the currer (A) Jim Young Kim (B) Lewis Preston (C these (1)	nt President of th C) Barber Conab	e World Bank. le (D) None of	
Ans:				
100	When was the National Development Cou	ncil formed?		
100.	(A) 26th January, 1950		(B) 15th March, 1950	
	(C) 6th August, 1951		(D) 6th August, 1952	
Ans:	(4)			