NTSE (E)	NTSE - NOV, 2018	
Medium : English	MENTAL ABILITY TEST	Q. Booklet No. 108334
andidate's Roll Number	Paper - I	
4 0 1 9 0 3 1 me allowed : 120 Minutes	7 1 0 2 Total Questions : 100	Maxmimum Makrs : 100
	MR Answer Sheet No. and Question Booklet No. matcl estion Booklet and OMR Answer Sheet. Candidate sho	
	Instructions to Candidates	
 carefully before answering the second second	et No. very clearly (only one digit in one block ease see that no block is left unfilled and eve the OMR Answer sheet. For all the subsequ ain the same as given on the Admission Card. onsists of 100 questions (Q. Nos. 1 to 100).) on the OMR Answer sheet as given on Zeros are correctly transferred to tent purposes, your Centre Code No
6. If you do not know the ans	on and keep trying one question after another wer to any question, do not spend much time ne back to the questions which you have left	on it and pass on to the next one. If
 Since the time allotted to spending too much time or A blank page is provided for REMEMBER YOU HAVE TO S Answer to each question alternative in the OMR An booklet. Now turn to the next page The OMR Answer sheet co 	or rough work at the end of question paper. SHADE ANSWERS ON A SEPARATE OMR ANSW is to be indicated by SHADING the circle nswer sheet from among the ones given for and start answering the questions. Densists of two copies, the ORIGINAL COPY and	/ER SHEET PROVIDED. having the number of the correct the corresponding question in the the CANDIDATE'S COPY. Do not
	. Do not darken the bubbles in two copies of C u should hand over the original copy of OMR A ray the Candidate's copy of OMR Answer Shee	Answer sheet to the invigilator of

PAPER – I MENTAL ABILITY TEST (Q. Nos. 1 to 100) Max. Marks : 100

Note : SHADE the correct alternatives in the OMR Answer Sheet provided, from amongst the ones given against the corresponding questions in the Question Booklet. For shading the circles, use a **HB pencil**.

Th rig te fo th	ght to symbol : : hav rm of the left to the ur, one term is missi	nos. 1 to 10: n each question. The ter e some relationship as th symbol : : and out of th ng, which is among one on natives. Find the corre	he order of signs. Choose the correct order of signs from the four alternatives given under each of question, so that the equation becomes right. Write it in your answer sheet against the corresponding question number.
J.	AZY : EXW : : IVU :	¹³ TS	(1) 5-6=11÷19 5+6÷ 11=19
	(1) TSO	12Y OTS	(11) 5-6=11÷19 (1) +÷= $(12)x=+$ 5×6=11+19
	(3) SOT	(4) OST	(3) + (4)
6	•	and the second second	5+6-11=19×
(2.)	(1) Field : Play : : Si	ng : Anthem (2) Act	$\begin{array}{c} 12. \ 14 \div 2 + 16 = 12 \\ (1) + = - \end{array} \qquad (2) \div - = 5 - 6^{-1} 11 = 1^{\circ} \end{array}$
	(3) Theater	(4) Scene	(1) $+=-$ (2) $+=-$ (2) $+-=$ (2) (3) $\times +=$ (4) $\times =+$
	(e) Theater	147 Scene	(3) × + = (3) × = +
3.	Rook : Chess : :		13. 39 - 24 - 9 = 7
	(1) Grass	(2) Tennis	(1) + = + $(2) = + -$
	(3) Shuttlecock	(4) Swing	$(3) = + \div \qquad (3) + = \times$
4.	Cytology :	:: Geology : Rocks	14. 7=5×16-19 5+6+11
	12) Cells	(2) Psychology	(1) $\div = +$ (2) $\times = +$
	(3) Cyclones	(4) Pharmacology	(1) $\div = +$ (3) $-= +$ (4) $+-=$ $5 \times 6 = 11 - 1$
5	: Wrist : : !	Rolt · Waist	
		(2) Bend	15. $11 \times 7 - 23 = 5$ (1) $- = x$ (2) $+ = -$
-	(3) Arm	(4) Hand	(3) $\div = -$ (4) $= + -$ 516
			12+3=19-4
6.	AFK:BGL:: (1) SXZ	: EJO (2) PUZ	16. 12 = 3 ÷ 19 + 4 15 = 15 50
		(4) DHL	15. $11 \times 7 - 23 = 5$ (1) $- = \times$ (2) $+ = -$ (3) $\div = -$ (4) $= + -$ (2) $+ 3 = 102 - 9$ (1) $+ = -$ (2) $\div = -$ (3) $\times = -$ (4) $\times \div = -$ (4) $\times \div = -$ (4) $\times \div = -$ (4) $\times \div = -$ (5. 10) $\times \div = -$ (4) $\times \div = -$ (5. 10) $\times \div = -$ (4) $\times \div = -$ (5. 10) $\times \div = -$ (6) $\times \div = -$ (7) $\times \div = -$ (8) $\times \div = -$ (9) $\times \div = -$
	13 DIN		
7.)	Ruby : Red : : Sapphi		$17. 11 \times 7 \div 13 = 5$ $11 - 17 - 13 - 5$ $11 - 17 - 13 - 5$ $11 - 17 - 13 - 5$
	(1) Black	(2) Green	$(2) \div + = 1442 = 16$
1	(3) White	Blue	(3) $\times = -$ (4) $- = +$ 2 + 7 = 5 + 19
8.	Stars : Astronomy : :	: History	18. 2-7:5=19 2x7:5=19 14:2=16
	(1) Autumn	12 Battles	$(1) + = +$ $(2) \times + =$
	(3) Eclipse	(4) Horse	$(3) - + =$ $(4) \div = (4) \sqrt{2} - 10$
9.	AEZ : EIX : : IOX :	W 11+7=23	$\begin{array}{c} 19. \ 2 = 11 \div 3 \times 19 \ 2 - 11 = 3 \times 19 \ 10 \ 10 \ 10 \ 10 \ 10 \ 10 \ 10 \$
	(1) UYZ	(2) EIX	$\begin{cases} 19. \ 2 = 11 \div 3 \times 19 \\ (1) - = \times \end{cases} $ (2) $\div = \div $ $28 = 2$
	(3) AEX	(4) OUW	$(1) = - \times$ $(2) = - = - = - = - = - = - = - = - = - = $
10	AJT : BKU : :		2=11-12-19
	(1) CLV	(2) EHF	20. 3 + 5 - 2 = 13
	(3) ENO	(4) CVL	$(1) x = + (2) - = x \qquad 2 \times (1) = 3 - $
			$(3) + = (4) \div - =$
	2×5=16+19	29+2	4 = 977 39=24-977

Direction: In Question nos. 21 to 30: In the number series given below, one number is missing. Each series is followed by four alternatives (1), (2), (3) and (4). One of them is the right answer. Identify and indicate it as per the	Column 1 Study the columns and write the alternative letter
"instructions".	Column – I Column – II
+4 +6 20	GCUHV 66372 83 25 25 25 25 25 25 25 25 25 25 25 25 25
21. 8, 24, 12, 36, 18, 54,	CKXUD ARDRA T -> O
(1) 72 (2) 68 ×3	UDVGH 37862
(3) 108 (4) 27	HXGJY 06291 Q 4 8
22. 7, 10, 8, 11, 9, 12,	CGUDV (25738 K X 4
(1) 16 (2) 14	HGKDY 14628 UDCKG 42587 Q 4 8 5
(3) 13 (4) 10	KYDXC 15
	GXHJD 629
23. 8.0. 6, 5, 9, 3, 12, 1, 15,	
(1) -3 (2) 18	31. The code for Y is
(3) -1 (4) 13	1 (2) 8 (2) (A)
	(3) 3 (4) 7 (4) moder and (4)
(^{4.})77,91,105,119,133,161,	with the first with the second s
(2) 203	32. The code for C is
(3) 175 (4) 193 Och	10
25. 888, 440, 216, 104, 48,	(3) 6 (4) 2 (8) (4) 2
(1) 26 (2) 28	33. The code for D is
	33. The code for D is (1) 3
(3) 24 0 0 (4) 20 26. 4, 9, 19, 39, 79,	(3) 0 (4) 7
26. 4, 9, 19, 39, 79,	
21 ¹¹ (1) 139 60 (2) 159	34. The code for G is (2) 6
(3) 119 (4) 169	
27. 11, 23, 48, 99, 409	(4) 4
(1) 205 22 No 288 (2) 200	35. The code for J is
us 12 202 (4) 201 - 201	(1) 3 (2) 2
16 202 48 14 432 14 201 43	(3) (4) 4
328. 10, 26, 74, 218, 650,	28
(1) 1946 (2) 1950	
ALL (3) 1956 (4) 1942	1 Jop man in North 20
10	m m/ * a square la
29. 0, 7, 26, 63, 124, 215, 3, 124, 215,3, 124, 215,3, 124, 215,3, 124, 215,3, 124, 215, 215, 215, 215, 215, 215, 215, 215	6. 12/1 1
4 ° (1) 295 (2) 323 4 514	When the second se
(3) 305 (4) 342	20/00
^{30.} 0, 3, 8, 15, 24,	1 Y Y
(1) 35 (2) 39 9 9	3
(3) 27 (4) 32 - 48	888 440 216 4014
199 23 12 11	un - 216 - 104 - 48
103 -11	440 224 112 56
20100224 48 251	Pare 4
23 25 102	103 207 Page: 4
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DONO	OT OPEN THE SEAL UNTIL INSTRUCTED TO DO SO.
NT	SE (E) NTSE – NOV, 2018
	dium : English SCHOLASTIC APTITUDE TEST Q. Booklet No. 209199 lidate's Roll Number Paper – II
4	0190320172
Time	allowed : 120 Minutes Total Questions : 100 Maximum Marks : 100
not	TRUCTION : Please check that OMR Answer Sheet No. and Question Booklet No. match with each other. If they do match immediately replace the Question Booklet and OMR Answer Sheet. Candidate should fill the correct estion Booklet No. in OMR Answer Sheet.
	Instructions to Candidates
a S	ad the following instructions carefully before you answer the questions. Answers are to be SHADED on EPARATE OMR Answer sheet given, with a HB pencil . Read the Instructions printed on the OMR et carefully before answering the questions.
1.	Please write your Hall Ticket No. very clearly (only one digit in one block) on the OMR Answer sheet as given in your admission card. Please see that no block is left unfilled and even Zeros are correctly transferred to the appropriate blocks on the OMR Answer sheet. For all the subsequent purposes, your Centre Code No. and other details shall remain the same as given on the Admission Card.
2.	Paper-II (Scholastic Aptitude Test) consists of 100 questions (Q. Nos. 1 to 100).
3.	All questions carry one mark each.
4.	Since all questions are compulsory , do not try to read through the whole question paper before beginning to answer it.
5.	Begin with the first question and keep trying one question after another till you finish all the questions.
6.	If you do not know the answer to any question, do not spend much time on it and pass on to the next one. If time permits, you can come back to the questions which you have left in the first instance and try them again.
7.	Since the time allotted to the question paper is very limited, you should make the best use of it by not spending too much time on any question.
8.	Blank pages are provided for rough work at the end of question paper.
9.	REMEMBER YOU HAVE TO SHADE ANSWERS ON A SEPARATE OMR ANSWER SHEET PROVIDED.
10.	Answer to each question is to be indicated by SHADING the circle having the number of the correct alternative in the OMR Answer sheet from among the ones given for the corresponding question in the booklet.
11.	Now turn to the next page and start answering the questions.
12.	The OMR Answer sheet consists of two copies, the ORIGINAL COPY and the CANDIDATE'S COPY. Do not separate or displace them. Do not darken the bubbles in two copies of OMR Answer sheets separately. After the examination, you should hand over the original copy of OMR Answer sheet to the invigilator of the room and can take away the Candidate's copy of OMR Answer Sheet with them.
13.	The candidate need not return this Question Paper booklet and can take it after completion of the examination. No candidate should leave the examination hall before the end of the examination.

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PAPER – II SCHOLASTIC APTITUDE TEST (Q. Nos. 1 to 100) Max. Marks : 100

12

Note:

(i) Subjects, Total Questions of each subject and Marks allotted :-

(1)	Physics	13 Questions	13 Marks
(2)	Chemistry	13 Questions	13 Marks
(3)	Biology	14 Questions	14 Marks
(4)	Mathematics	20 Questions	20 Marks
(5)	History	12 Questions	12 Marks
(6)	Geography	12 Questions	12 Marks
(7)	Political Science	08 Questions	08 Marks
(8)	Economics	08 Questions	08 Marks

(ii) **SHADE** the correct alternatives in the OMR Answer Sheet provided, from amongst the ones given against the corresponding questions in the Question Booklet. For shading the circles, use a **HB pencil**.

209199

BIOLOGY	8. Match the item in Column-I with Column-II : Column-I Column-II
 Which of the following is the connecting link between the aves and reptiles ? (1) Archaeopteryx (2) Alligator (3) Dinosaurs (4) Amphioxus Deficiency of Vasopressin causes a disease called (1) Asthma (2) Goiter (3) Diabetes insipidus (4) Diabetes mellitus Saliva contains an enzyme called (1) Trypsin (2) Ptyalin (3) Lipase (4) Pepsin Area of best vision present in the retina (1) Blind spot (2) Pupil 	 (a) Retinol (i) Scurvy (b) Thiamine (ii) Xerophthalmia (c) Ascorbic acid (iii) Rickets (d) Calciferol (iv) Beri-beri (1) a - iii, b - i, c - iv, d - ii (2) a - iv, b - ii, c - ii, d - i (3) a - ii, b - iv, c - i, d - iii (4) a - iv, b - iii, c - ii, d - i 9 Choose the correct statement from the below : Each human cell contains (1) one pair of autosome and 22 pairs of allosomes
endoplasmic reticulum are	 (2) only 23 pairs of allosomes (3) only 23 pairs of autosomes (4) 22⁻ pairs of autosomes and one pair of allosome
 (1) Lipids (2) Plastids (3) Ribosomes (4) Lysosomes (5) Name the connecting tissue that connects a muscle to the bone. (1) Areolar tissue (2) Cartilage (3) Ligament (4) Tendon 7) What happens to the inhaled air as it passes through the nasal cavity ? (1) Warmed to the body temperature (2) Moistened by mucus (3) All of these (4) Filtered in the nasal cavity 	 Name the structure that helps the sperm in penetrating into ovum. Tail Tail Middle piece Acrosome Neck From which part of cinchona plant the alkaloid quinine is obtained ? Seeds Bark Leaves Roots Scientific and objective study of animal behaviour is called Zoology Ecology Zoology Ethology The process of entry of pollutants into a food chain is known as Bio-accumulation Biosphere The nickname given to the neural apparatus of human digestive tract Fore brain Mid brain

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POLITICAL SCIENCE	 ¹⁹ In India, the Prime Minister is (1) None of these
a State. It secured six percent of the total votes. In addition to this, it must have won atleast : (1) four seats (2) two seats	 (4) The head of the Government (3) The head of the State as well as Government (4) The head of the State 20 " as long as there are tears and suffering, so long our work will not be over" - who spoke these words in his/her speech to the Constituent Assembly ? (4) Sarojini Naidu (2) Mahatma Gandhi (3) Dr. B.R. Ambedkar (4) Jawaharlal Nehru 21 Which among the following statements is/are correct with reference to Election Commission (EC) of India ? A.The Government Officers work under the control of the EC and not the government
 (3) three seats (4) one seat 17. At present, 'right to property' is a (1) Constitutional Right (2) Human Right (3) Fundamental Right (4) Natural Right 18. When all the democracies and dictatorships for the 50 years between 1950 and 2000 are considered : (1) Dictatorships have slightly higher rate of economic growth. (2) Democracies have slightly higher rate of economic growth. (3) Democracies have very higher rate of economic growth. (4) Both the dictatorships as well as the democracies have equal rate of economic growth 	 when they are on election duty. B.EC implements the code of conduct and punishes any candidate or party that violates it. C.The Chief Election Commissioner is not answerable to the President or the Government. D.The Chief Election Commissioner is appointed by the President of India. (1) A, B, C and D (2) B only (3) B, C and D (4) C only 22. Which of the following States has its own Constitution ? (1) Jammu and Kashmir (2) Nagaland (3) Gujarat (4) None of these

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PHYSICS

23. A string of neglible mass going over a clamped pulley of mass m supports a block of mass M as shown in the figure. The force on the pulley by the clamp is

(g = acceleration due to gravity)



24. A small block slides without friction down on inclined plane starting from rest. Let S_n be the distance travelled from time t = (n - 1) to time

t=n. Then
$$\frac{S_n}{S_{n+1}}$$
 =
(1) $\frac{(2n+1)^2}{2n+3}$ (2) $\frac{2n+3}{2n-3}$
(3) $\frac{2n-1}{2n}$ (4) $\frac{2n-3}{2n+3}$

25. The refractive index of the material of a double convex lens is 1.5 and it's focal length is 5 cm. If the radii of curvature are equal, the value of the radius of curvature is _____ cm.

14 6.5	(2)	5	
(3) 8	(4)	5.6	

26. In a container (Cross-sectional Area A) a homogeneous solid cylinder of length L (L < H/2 as shown in the figure), cross-sectional area A/5 is immersed such that it floats with its axis vertical at the liquid-liquid surface with length L/4 in the denser liquid as shown in the figure. The lower density liquid is open to the atmosphere. Then the density D of solid is given by</p>



40. 1

27. On a planet whose size (including radii) is the same and mass is 4 times as that of our earth. Then the amount of work done to lift 3 kg mass vertically upwards through 3 m distance on that planet is

(g on the surface of earth is 10 m/s^2)

- (1) 40 J (2) 360 kg
- (3) 360 J
- 28. Three unequal resistors in parallel are equivalent to a resistance 1 ohm. If two of them are in the ratio of 1:2 and if no resistance value is fractional, (let them be natural numbers) the smallest of the three resistance (in ohms) is

(1) 6 (2) -2 (3) 4 (4) 3

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²⁹ Two trains with V_1, V_2 speeds take 3 seconds to 33.

pass one another when going in opposite direction, but takes only 2.5 seconds if the speed of any one of it is increased by (its speed) 50%. The time would take to pass the other when going in the same direction with V_1, V_2

spee	ds in	sec.		
(1) 1	.0		(2)	18
(3)-1	5		(4)	12

30. Let the smallest audible sound (nearer to total silence) is 0 dB. A sound 1000 times more powerful than the sound nearer to total silence is

(1) 3 dB(1) 3 dB(1) 10 dB(2) 10 dB(4) 30 dB(4) 30 dB(5) 6V r(5) 6V r(6) r(6) r(6) r(7) 10 dB(1) 10 dB(4) 30 dB(4) 30 dB(5) 6V r(6) r(6) r(7) 10 dB(7) 10 dB(7)

32. Three identical (in all aspects) metal spheres A, B and C are supported on separate insulated stands and placed in contact as shown in the figure. A charged glass rod rubbed by a silk cloth is kept near the metal sphere A, then charges on A, B and C respectively are



- (1) Positive charge, Neutral, Neutral
- 1/27 Negative charge, Positive charge, Neutral
- (3) Negative charge, Neutral, Positive charge
- (4) Positive charge, Neutral, Negative charge

A ray of light is incident normally on face AB of a prism as shown in the figure. A liquid of refractive index μ is placed on the face AC of the prism. The prism is made of glass of refractive index 3/2. The limit of μ for which total internal reflection takes place on face AC is



1

34. A block of ice at -10 °C is slowly heated and converted to steam at 100 °C. Which of the following curves represents the phenomenon qualitatively?



35. A square coil ACDE with its plane vertical is released from rest in horizontal uniform magnetic field $\, {\, {
m B}}\,$ of length 2L. The acceleration

of the coil when coming out of the field is (Acceleration due to gravity g)



(4) Equal to g

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MATHEMATICS
36. One of the factor for
$$x^3 - 23x^2 + 142x - 120$$
 is
(1) $x + 10$ (2) $x + 12$
(3) $x - 4$ (9) $x + 12$
(4) $x + 10$ (2) $x + 12$
(5) $x - 4$ (9) $x + 12$
(6) $x - 4$ (9) $x + 12$
(7) $x + 10$ (9) $x + 12$
(9) $x - 4$ (9) $x - 1$
(9) $x - 2$ (9) $x - 2$
(9) $x - 2$

91. C

47. If the e	quation $(k+3)x^2$ -	-(5-k)x+1=0) 53. [f	$a^x = b^y$	+z then	_	2	
	$\frac{1}{10000000000000000000000000000000000$		(1	$1 \frac{\log b}{\log b} =$			$\frac{x}{x}$	
(3) k > 13		> 12 or k < 1		log a	x	·	y + z	
	ts of the equation ($\frac{\log a}{\log b} =$		(4) _X Io	og a = yz log	; b
(a – b) = (are equal, then –	$\frac{+c}{-}$	54. If	the sum	of the r	oots of	the equation	on
-(1)]	(2) 3	D					, then the v	
(3) 2	(4) 4			fλis		1 (2) 2	-	
49. $x+1$	y-1 and $x-$	-1 - y + 1 = 0 the	1	$\frac{1}{2}$		(2)-2		
	$\frac{y-1}{3} = 8$ and $\frac{x-3}{3}$	$\frac{-+}{2}$ = 9, the) (3			(4) 2		
y = (1) 7	(2) 1	2		$-\frac{1}{2}$				
(3) 8	(2) 1	3	55 14	x, x, x,	y X	1) are	collinear, th	
	um of the square	≂ s of the roots s		(a, 0), (0) $+\frac{1}{-}=$, b) and (1	L, L) are	collinear, th	ien
	polynomial $f(x) =$			+ _ = b				
then k ≐			1	.) 4		(2) 1		
(3) 36	(2) 6 (4) 1		E) (3	9] 3	• H •	412		UB
				74-26	ew, 1	9171		3
^{51.} 14 cards 14, 15, 1	numbered 5, 6, 7, 8 16, 17, 18 are pla	aced in a box an	, d Ky2	+382-	SK-K	36 + 1 0	-0	F
mixed th	oroughly. If a card probability that t	is drawn from th		36-4841	1500	. • I	us '	
card divis	ible by 3 or 2 is			26-484	12		12	0
(1) $\frac{12}{14}$	q	5		Ver.	10	2	USTRE 29	0
14	(4)	14 32+3+29.	=8		FRED	. 6-	NB	
14	(4)	$\frac{4}{14}$ 6		236-48	0	30	59 .	
		3x+29+3		P x Ye			ay	
52. If a^{x-1}	$= bc, b^{y-1} = ca$	$a, c^{z-1} = ab$ the	· -¢	2,87 4	14 +5	513	(1)2-	$(\frac{1}{2})$
xy + y	z + zx (3)	1+24=47	124	Maria	N.	1-6-1	2/	
ll xyz	(2) 0 22 -2+34	1+3=54		· · ·		Ŋ	2(-2)-	(
(3) 1	(4) 1	$+\frac{1}{+}\frac{1}{+}$	-	-	-1		Z	,
12	(-2×+34=5	y z	V				22-	/
)			(-2	3- (-2)	4.	12 . 4	- 1	
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CHEMISTRY

CHEMISTRY
56. The correct set of quantum number is _______
(1)
$$n = 2, l = 1, m = 0, s = 0$$

(2) $n = 2, l = 2, m = -1, s = -\frac{1}{2}$
(3) $n = 2, l = -2, m = -1, s = -\frac{1}{2}$
(4) $n = 2, l = -2, m = -1, s = -\frac{1}{2}$
(5) Which of the following sets of phenomena would increase on raising the temperature?
a. Evaporation of liquid
c. Solubility of solute in water
d. Solubility of choose the correct statement S.
d. Dre copper, Pure Zinc
d. In pure Copper, Pure Copper
(a) Impure Copper, Pure Copper
(b) Ch₂ - CH₂ - CH₂
d. CH₂ - CH₂ - CH₂
d. CH₂ - CH₂ - CH = CH₂
d. CH₂ - CH₂ - CH
d. CH₂ - CH₂ - CN
d. CH₂ - CH₂ - CN
d. CH₂ - CH₂ - CN
d. Solution the earth rout.
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- 64. Which of the following is not an oxidation 68. Find the incorrect statement. reaction?
 - (1) The poling process involving the removal of impurities from a molten metal
 - (2) The black coating on silver due to formation of silver sulphide
 - (3) Bleaching of coloured sugarcane juice/vegetables sulphur using moist dioxide.

(4) Rancidity of fats

65. Find the false procedure.

- (2) Roasting Presence of oxygen Sulphide ore - Oxide ore
- (2) Calcination -Presence of oxygen -Carbonate ore - Oxide ore
- (3) Froth Floatation Presence of blown air -Impure sulphide ore -Increase concentration of sulphide ore
- (4) Smelting Presence of Flux Reduction of oxide ore - Metal

^{66.} CuO + $H_2 \rightarrow$ Cu + H_2O is a balanced chemical

equation, causing reduction of CuO. What volume of H, at STP is required to

reduce 7.95 gm of CuO to give Cu and $\rm H, O$?

(Atomic weight of Cu = 63.5 U and Atomic weight of O = 16 U

(1)	22.4 lit	₩J	2.24 lit
(3)	0.224 lit	(4)	224 lit

- 67. Ionic compounds are formed most easily when the combination is having
 - (1) High Electron Affinity, Low Ionisation Energy
 - Low Electron Affinity, Low Ionisation Energy
 - (3) High Electron Affinity, High Ionisation Energy
- M Low Electron Affinity, High Ionisation Energy

11. 1

- (1) 10% ethanol in gasoline (gasohol) is a good motor fuel.
- (2) Ethanol is а colourless liauid with characteristic of sweet odour and pure ethanol is called absolute alcohol.
- colour $Ct_2O_7^{2-1}$ changes bluish (3) Orange

green Cr^{3+} during the process of oxidation of ethanol to ethanal and ethanoic acid.

4 Denatured alcohol means 100% alcohol in the form of pure ethanol.

ECONOMICS 69. The marginal productivity of the disguised unemployed is (1) zero (2) very low (3) unmeasured (4) very high	 73 Consider the following statements and select the correct answer using the code given below. A.According to social scientists, social exclusion is a cause of poverty. B.According to social scientists, social exclusion is a consequence of poverty. (1) Only 'A' is correct. (2) Only 'B' is correct.
 70. International Co-operative day is celebrated every year on the (1) First Saturday of July (2) First Saturday of August (3) Second Saturday of July (4) Second Saturday of August 71. US farmers can sell the farm products at abnormally low prices because : (1) They use machines for all works of cultivation. (2) Production cost is very low in US 	 (3) Both 'A' and 'B' are correct. (4) Both 'A' and 'B' are not correct. 74 Which of the following factors is not at all related to Green Revolution ? (1) Use of HYV seeds (2) Use of chemical fertilisers (3) Loss of soil fertility (4) All of these are related. 75. "We have not inherited the world from our forefathers - we have borrowed it from our children" - This quote expects us :
 (3) They receive massive sums of money from the US Government. (4) They are very rich and they don't want any profits. 72. When the period of last 4 decades is considered, which of the following statements is/are true regarding the primary sector of Indian economy ? A. The primary sector has lost its credit as the largest employer. B. The primary sector continues to be the largest employer. C. The share of primary sector in GDP has fallen drastically. D. The share of primary sector in GDP has fallen drastically. (1) A & C (2) A & D (3) B & C 	 (1) To use non-renewable resources extensively. (2) To extract more ground water. (3) To prefer sustainability of development. (4) To prefer rapid industrialisation. 76. If organised sector is denoted by the code 'A' and unorganised sector by the code 'B', then which of the following statements is correct in the context of contemporary India ? (1) Most of the people want to work in 'B' and they are in 'B'. (2) Most of the people want to work in 'B' but they have to be in 'A'. (3) Most of the people want to work in 'A' but they have to be in 'B'. (4) Most of the people want to work in 'A' and they are in 'B'.

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GEOGRAPHY 77 Consider the following statements : A.Igneous rocks are responsible for the formation of black soil. B.Terai is a narrow belt of pebbles. C.The newer alluvial deposits of the northern plain are called khadar. Which of the above statements are correct ? (1) A, B and C (2) A and B (3) B and C (4) A and C	 82. The Godavari is known as the Dakshin Ganga because : (1) of its origin in Western Ghats (2) of its making of waterfalls (3) of its drainage into Bay of Bengal (4) of its length and the area it covers 83. Consider the following countries : A. USA B. Egypt C. Brazil
 ^{78.} Black soils are generally poor in : (1) Calcium carbonate (2) Phosphoric contents (3) Magnesium (4) Potash and lime 	 D. Mongolia E. Canada F. Uzbekistan Which of the above countries are smaller that India with respect to area ? (1) C and D only (2) A, B and F only
 ^{79.} Consider the following statements : A.India is believed to be the original home of this plant. B.It grows well in black soil. C.China is the largest producer of it. Which of the following crops is mentioned in all the statements given above ? (1) Jute (2) Cotton 	 (3) B, D and F only (4) C and F only 84. Out of the following states, which one receive the South – West monsoon lately ? (1) Karnataka (2) Kerala (3) Maharashtra (4) Gujarat 85. Which of the following has recorded the highest sex-ratio according to Census 2011 ?
 B.Bengaluru has emerged as the electronic capital of India. Which of the above statements is/are NOT correct? (1) B only (2) Both A and B (3) A only (4) None of these Which type of forests are not found in Andhra Pradesh? (1) Deciduous forests (2) Mangrove forests 	 (1) Kerala (2) Delhi (3) Pondicherry (4) Haryana (4) Haryana (5) What were described as the "temples of modern India" by the 1st Prime Minister of India ? (1) Hospitals (2) Railway stations (3) Schools (4) Dams (1) Paradwip port (2) Kolkata port (3) Mumbai port (4) Kandla port (3) Per capita consumption of which energy source is considered as an index of development ?
	 (1) Petroleum (2) Electricity (3) Natural gas (4) Solar energy

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	HISTORY	94.	In 1868 England was producing about 80 percent of the food it consumed. This increase in food-grain production was made possible
	Consider the following statements in connection with the printing press invented by Gutenberg. A.The first printed book was the Bible. B.The new technology entirely displaced the existing art of producing books by hand. C.At first the printed books closely resembled the written manuscripts in appearance.	~	mainly by : (1) The use of only bio- fertilizers
			42) Bringing new lands under cultivation
			(3) Extensive use of chemical fertilizers
			(4) Radical innovations in agricultural technology
	Which of the statements given above are correct? (1) A and C (2) A and B	95.	'A sanyasi, who had earlier been to Fiji as an indentured labourer, led a peasant movement.
~			He used to recite verses from Tulasidas Ramayana to rural audience' – who was 'He'
90.	(3) A, B and C (4) B and C The national colours of France are :		referred to here ? (1) Jhinguri Singh
	(1) Green – Gold		(2) Jadunandan Sharma
	(2) Saffron - White - Green	ę	13) Baba Ram Chandra
*	(3) Red - Blue - Green (4) Blue - White - Red		(4) Sahajananda Saraswati
	Which of the following features was NOT related to Stalin ? Collectivization of agriculture)T _{96.}	In 19th century, the main destination(s) of Indian indentured migrants was/were : (1) Fiji and Mauritius only
	(2) Rapid industrialization		(2) Fiji, Caribbean islands and Mauritius
	(3) Announcement of 'The New Deal'		(3) Fiji and Caribbean islands only
((4) Introducing five year plans	~	(4) Fiji only
92.	The African word 'Maasai' means : (1) My pasture (2) My cattle	97.	Which one of the following statements is correct?
1	(3) My land (4) My people		(1) William-I was proclaimed King of united Italy in 1861.
/ E	Give the correct chronological order. A. Simon Commission B. First round table conference C. Gandhi – Irwin Pact D. Re-launch of Civil Disobedience Movement (1) A, B, C, D (2) D, C, A, B (3) C, B, A, D (4) A, C, B, D		 (2) Victor Emmanuel-II was proclaimed German Emperor in 1861. (3) Victor Emmanuel-II was proclaimed King of
			united Italy in 1871.
(7	(4) William-I was proclaimed German Emperor in 1871.
		98.	Who was the chairman of ' the Democratic
			Republic of Vietnam' ? (1) Nguyen (2) Bao Dai
			(3) Ho Chi Minh (4) Ngo Dinh Diem

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A.The first Inspector General of Forests in India was a French expert appointed by the British government.

41. E.

B.Shifting agriculture in Sri Lanka was called 'Chena'.

C.The people of forest communities benefited in many ways after the forest department took control of the forests.

Which of the above statements is/are correct ? (1) B only $\sqrt{2}$ A and C

(3) A and B (4) A, B and C

^{100.} Famous Enabling Act was passed in Germany in 1933. With this, Hitler :

(1) restored the dignity of Germany

(2) established socialism in Germany

(3) became the chancellor of Germany

√ √ became the dictator of Germany