SCHOLASTIC APTITUDE TEST Part – II

(FOR Students of Class X)

Time: 90 Minutes

Max. Marks: 100

Instructions to Candidates

Read the following instructions carefully before you open the question booklet.

- 1. Answers are to be given on the same OMR Answer Sheet provided for Part - I.
- 2. There are **100** questions in this test. All are compulsory.
- 3. The question numbers 101 – 120 belong to Mathematics, 121 – 160 pertain to Science and 161 – 200 are social science subjects.
- Choose the correct answer from the options given for each question and darken the corresponding circle 4. with black ball point pen in the OMR answer Sheet.
- Since the time allotted for this Question Paper is very limited you should make the best use of it by not 5. spending too much time on any one question.
- If you do not know the answer to any question, do not waste time on it and pass on to the next one. If time 6. permits, you can come back to the questions, which you have left in the first instance and attempt them.
- 7. Rough work can be done anywhere in the Question Booklet but **not** on the OMR Sheet/loose paper.
- 8. Every correct answer will be awarded one mark.
- Please return the OMR Answer Sheet only to the invigilator after completion of the test. You can 9. retain the Question Booklets.
- 10. English version of the Question paper will be considered as final in case of any dispute arising out of variation in translated version.
- 11. Quote your seven digit Roll number without fail for any future correspondence.

PLEASE TURN OVER THE PAGE AND START ANSWERING.

Name of the Candidate :

Enrollment Number •

MATHEMATICS

101.	When $10 x^2 + x - 23$ is divided (A) 1	by (2x + 3), the reminde (B) -2	r is: (C) 2	(D) 0
102.	If α and β are the zeros of the	polynomial 25 x^2 - 16, the second	nen $\alpha^2 + \beta^2$ is:	
	(A) $\frac{32}{25}$	52	(C) $\frac{25}{16}$	(D) $\frac{16}{25}$
103.	The sum of $\frac{a^3}{b-a}$ and $\frac{b^3}{a-b}$ is	:		
	(A) $a^2 + ab + b^2$	(B) $-a^2 - ab - b^2$	(C) $a^2 - ab + b^2$	(D) $a^3 - b^3$
104.	Sum of the digits of two digit nu		obtained by interchangir	ng the digits is 18 more than
	twice the original number. The (A) 72	(B) 27	(C) 36	(D) 63
105.	Which of the following are irrati			
		(ii) $\sqrt{4 + \sqrt{25}}$	(iii) $\sqrt[3]{5+\sqrt{7}}$	(iv) $\sqrt{6 + \sqrt[3]{8}}$
	(A) (i), (ii)	(B) (iii), (iv)	(C) (i), (iii)	(D) (iv), (iv)
106.	For which value, point A(a, b) li (A) a > 0, b < 0	ies in the quadrant III: (B) a < 0, b < 0	(C) a > 0, b > 0	(D) a < 0, b > 0
107.	If the LCM of 12 and 42 is (10 r	m + 4) then the value of '	m' is:	
	(A) 50	(B) 8	(C) $\frac{1}{5}$	(D) 1
108.	If the perimeter of protractor is	72 cm, then it's radius is	$\left(\text{take } \pi = \frac{22}{7} \right)$:	
	(A) 7 cm	(B) 21 cm	(C) 14 cm	(D) 3.5 cm
109.	The degree of the polynomial ((A) 2	x + 1) (x ² -x - x ⁴ + 1) is: (B) 3	(C) 4	(D) 5
110.	Two right circular cones have surface areas is:	same radii. Ratio of the	ir slant height is 4: 3, th	nen the ratio of their curved
	(A) 16: 9	(B) 2: 3	(C) 4: 3	(D) 3: 4
111.	AB and CD are two chords of $PD = 3 \text{ cm}$, then the length of C		each other externally at	p. if $AB = 4 \text{ cm}$, $BP = 5 \text{ cm}$,
	(A) 10 cm (A)	(B) 12 cm	(C) 8 cm	(D) 11 cm
112.	The radii of two concentric circ		are respectively. The ar	ea between the two sectors
	of the circles whose central and (A) 154 sq. cm	gle 60° is: (B) 77 sq. cm	(C) 308 sq. cm	(D) 98 sq. cm
113.	Arithmetic mean of 20 observa	ations is 15. if each obse	ervation is multiplied by	$\frac{2}{2}$ then the arithmetic mean
	of them is: (A) 10	(B) 30	(C) 45	3 (D) 15

114.	a non – defective item is: (A) $\frac{7}{10}$	(B) 0	(C) $\frac{3}{10}$	(D) $\frac{2}{3}$
115.	Segment of a quadrant of a circ (A) $\frac{r^2}{2} \left(\frac{\pi}{2} - 1\right)$ sq. units	•		5
116.	$\sqrt{1-\sin^2 A}$. $\sqrt{\sec^2 A-1}$. $\sqrt{1+c}$	$rac{1}{cot^2 A}$		
117.	(A) 0 If $5x = \csc \theta$ and $\frac{5}{x} = \cot \theta$ the	(B) 2 then $5\left(x^2 - \frac{1}{x^2}\right) =$	(C) 1	(D) -2
	(A) 25	(B) 1	(C) $\frac{1}{5}$	(D) -5
118.	If $x = a \cos \theta$, $y = \sin \theta$, then x	$^{2} + y^{2} =$	C C	
	(A) 1	(B) a	(C) a ²	(D) $a^2 + b^2$
119.	If the diagonals of a rhombus a (A) 20 cm	re 30 cm and 40 cm, the (B) 22 cm	n the length of side of rh (C) 25 cm	ombus is: (D) 45 cm
120.	Equilateral triangle ABC is in triangle = 24 cm, then the radiu	is is	side of the	\sim
	(A) 6 √3 cm (C) 8 √3 cm	(B) 12 √3 cm (D) 6cm	(/	
		(D) 6cm	/r_	• 0 \)

There are 6 defective items in a sample of 20 items. One items is drawn at random. The probability that it is

114.

SCIENCE

в

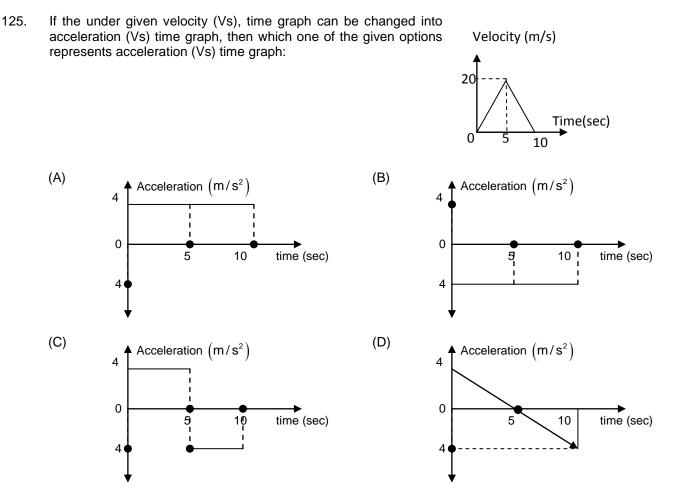
- 121. Two cars A and B accelerate in the ratio of 2: 3 respectively. If they both accelerate for equal time, the ratio of their change in velocity is:
 (A) 2: 3
 (B) 3: 2
 (C) 1:1
 (D) 1: 2
- 122. Two cars X and Y accelerate at the rate of 2 m/ s² and 3 m/s² respectively from rest. The ratio of time taken by the cars X and Y is 4: 5. In that given ratio of time interval if the distance travelled by car X is 100 km then the distance travelled by car Y is:

(A)
$$\frac{1875}{8}$$
 km (B) $\frac{375}{2}$ km (C) $\frac{1875}{4}$ km (D) $\frac{375}{4}$ km

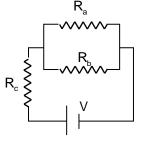
- 123. A car driver travelling with a uniform velocity of 2m/s notices a railway level crossing at a distance of 435 m from him. And also he notices that it is going to be closed in 10 seconds. First he decides to cross the level crossing hence he accelerates his car at the rate of 2 ms⁻² for five seconds. Then he decides to stop the car. So he applies brake and stops the car exactly before the level crossing (without following the timer). Calculate the minimum rate at which he has to decelerate the car so that he stops the car exactly before the level crossing

 (A) 1.8m/s²
 (B) 18 m/s²
 (C) 0.18 m/s²
 (D) 3.6 m/s²
- 124. Two files A and B revolve around a light in concentric circular path. The radius of circular path of A is twice of B. A travels with a uniform linear speed of 4 m/s while B travels with a uniform linear speed of 3 m/s. when A completes tree full rounds then B would have completed:

 (A) 4 rounds
 (B) 3 rounds
 (C) 2 rounds
 (D) 1 round



- 126. A boy travels along a circular path of radius 'r' m. when his angular displacement is $\frac{\pi}{3}$ radians then his linear displacement is:
 - (A) $r\sqrt{2}$ m (B) r m (C) $2\sqrt{r}$ m (D) $\frac{\pi r}{3}$ m
- 127. From a tower of height 20 m a boy throws a stone in the vertically upward direction with a velocity of 40 m/s and at the same time a girl drops another identical stone from the same tower. When the momentum of the stone dropped by the girl is maximum what will be displacement of the stone projected in the upward direction from the top of the tower? (Take acceleration due to gravity of earth as 10 m/s²) (A) 60 m (B) 40 m (C) 20 m (D) 0 m
- 128. If all $R_a = R_b = R_c$ then the number of electrons travelling through R_a in every second is:
 - (A) Half the number of electrons travelling through $\,R_{_{\! b}}$
 - (B) Equal to the number of electrons travelling through R_c
 - (C) Twice the number of electrons travelling through R_c
 - (D) Half the number of electrons travelling through $\,{\rm R_c}$



129.	The heat energy produced by the given coil in the given circuit in five minutes is:			d 200 V, 10 A	
	(A) 6×10^5 J	(B) 5.4×10 ⁵ J	يون ا	لمعقع	
	(C) 6×10^4 J	(D) $5.4 \times 10^4 \text{ J}$		0 ohm	
			Ť	₹35 ohm	
				⊢]	
			20	10 V	
130.	The net current in the circuit is:		40 ohņ	ı	
	(A) 2 A	(B) $\frac{4}{3}$ A (D) $\frac{2}{3}$ A		√√	
	(C) 1A	(D) $\frac{2}{3}$ A	100 oł		
		-		200 V 50 ohm	
131.	A stone of mass 500 gm is dro the kinetic energy possessed by due to gravity of earth as 10ms	y it is 800 J. what is the			
	(A) 320 m	(B) 160 m	(C) 80 m	(D) 240 m	
132.	A car of mass 2, 000 Kg travel m/s. The work done on the car i		-		
	(A) 4.8 KJ	(B) 480 KJ	(C) 48 KJ	(D) 500 KJ	
133.	The engine of a bus of mass 5, expended by the bus is:	000 kg accelerate the b	us from 2 m/s to 20 m/s	in 120 seconds. The power	
	(A) 8,250 W	(B) 8.25 W	(C) 82.5 W	(D) 825 W	
134.	Tincture of iodine is a solution iodine in:	used as an antiseptic to	clean wounds. This is I	prepared by dissolving solid	
	(A) Alcohol	(B) Water	(C) Carbon di sulphide	(D) Ether	
135.	You are provided with 64 g of a number of molecules? (Atomic r (A) 64 g of S B) 64 g of O_2 C) Both have equal number of r (D) Cannot calculate with the gi	mass of S = 32, O = 16) nolecules	nd 64 g of O ₂ in contair	ner B. which will have more	
136.	Shyam and hari have 2 identica	al pieces of marble chips	s with same mass. The	y take equal volumes of dil.	
	HCl with the same concentration in two different test tubes. Shyam puts the marble piece directly into the acid whereas hari powdered the marble piece and puts it into the test tube. What will be the correct				
	observation made? (A) Reaction in Shyam's test tub (C) Both reactions will happen in		(B) Reaction in Hari's t (D) No reaction happe	est tube will be faster ns in both the test tubes	
137.	PH paper is separately dipped i and blue in Y. X and Y are most (A) $X -$ water, $Y -$ NaOH C) $X -$ HCl, $Y -$ NaOH		X and Y. colour of pH p	aper turned pale green in X	

138.	An element has two shells an	d has double the number	of electrons in its valend	ce shell than the first shell.
	The valency of the element co	uld be:		
	(A) 8	(B) 4	(C) 2	(D) 6

139. Priya and karthik wanted to study about diffusion among liquids they took identical beakers and poured 100 mL of H₂O in both the beakers. Priya heated the water to 50° C but karthick maintained the water at room temperature. They both added 5 drops of ink into the beaker, what will they notice?
(A) Colour of ink spreads faster in Priya's beaker
(B) Colour of ink spreads faster in Karthick's beaker

- (C) Colour of ink spread at the same rate in both beakers
- (D) In both the beakers, ink drops settle down at the bottom without spreading

140. $\frac{27}{13}$ Al looses electrons and forms trivalent cation. This ion will have

- (A) 13 electrons and 14 protons (B) 10 electrons and 13 protons
- (C) 10 electrons and 10 protons (D) 14 electrons and 13 protons
- 141. When CO₂ gas is passed through lime water, the solution turns milky, This is due to the formation of: (A) CaCO₃ (B) CaO (C) Ca(HCO₃)₂ (D) Ca(OH)₂
- 142. A set of students went on a nature trip where one of the students disturbed the honey comb, by throwing a stone on it. Few students were stung by the bee. A person gathering medicinal plants, came to their rescue and applied the extract of some leaves, which relieved the students of their pain. The chemical nature of leaf would have been

 (A) Acidic
 (B) Basic
 (C) Neutral
 (D) Mildly acidic
- 143. Metal A reacts with water to give B. 'B' is used for white washing. On heating B gives C. C reacts with water to give back B. Identify A, B and C.

	Α	В	С
(1)	Ca	CaO	Ca(OH) ₂
(2)	CaO	Ca	Ca(OH) ₂
(3)	Ca	Ca(OH) ₂	CaO
(4)	CaO	Ca(OH) ₂	Ca

P, Q and R are 3 metals that undergo chemical reactions as follows: 144. $P_2O_3 + 2Q \rightarrow Q_2O_3 + 2P$ $2P + 3RO \rightarrow P_2O_3 + 3P$ $2RSO_4 + 2Q \rightarrow Q_2(SO_4)_3 + 2R$ Observer the reactions and arrange the metals in the increasing order of their reactivity. (B) Q, P, R (A) R, P, Q (C) P, Q, R (D) Q. R. P 145. Which among the following is the correct representation of 360 g of water (H = 1, O = 16) (I) 2 moles (II) 20 moles (III) 6.022×10²³ molecules (IV) 1.2044×10²⁵ molecules (B) (II) and (IV) (A) (I) and (III) (C) (I) and (IV) (D) (II) and (III) 146. Metallic copper can be used to retrieve Silver from silver nitrate solution. This is because

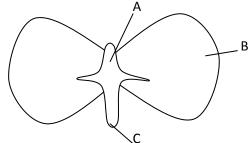
(A) Cu is less reactive than Ag
(B) Cu is more reactive than Ag
(C) Cu and Ag have same reactivity
(D) Cu does not react with AgNO₃

147. $6CO_2 + \xrightarrow{?} \xrightarrow{\text{Sunlight}} C_6H_{12}O_6 + 6O_2 + 6H_2O$

Which two raw materials required for photosynthesis are missing in the above equations?

- (A) Oxygen and Water (B) Oxygen and Calcium
- (C) Water and Chlorophyll (D) Chlorophyll and Oxygen
- 148. In bamboo plant, the water reaches all the parts of the plant. Name the force that helps in this process (A) Diffusion (B) Transpirational pull (C) Gravitational pull (D) Translocation

149. Choose the correct arrangement of the parts A, B a marked in the given figure.
(A) Cotyledon, Plumule and Radicle
(B) Plumule, Cotyledon and Radicle
(C) Radicle, Plumule and Cotyledon
(D) Radicle, Cotyledon and Plumule



- 150. The production of orchids by the method of Tissue Culture is also known as :(A) Vegetative propagation (B) Micro propagation (C) Fragmentation (D) Regeneration
- 151. If a nail is hammered into the tree trunk, then the position of the nail after few years will be: (A) Same (B) Above (C) Lower (D) Nail will disappear
- 152. Which one of the following is the correct hierarchy of classification?
 - (A) kingdom, Division, Class, Order, Family, Genus, Species
 - (B) Kingdom, Division, Order, Class, Family, Genus, Species
 - (C) Kingdom, Division, Class, Order, Genus, Family, Species
 - (D) Kingdom, Division, Class, Order, Family, Species, Genus
- 153.What will happen to the cell, if the medium has a lower concentration of water than the cell?
(A) Bulge(B) Shrink(B) No change(D) Cannot be predicted
- 154. Assertion (A) : People entering into the burning place die due to suffocation Reason (R) : Smoke contains large amount of carbon mono oxide, a toxic gas (A) (A) is correct and (R) is wrong
 (B) (R) explains (A)
 (C) (R) does not explain (A)
 (D) (A) is wrong but (R) is correct

155. Study the relationship of the given pairs and choose the correct option to fill in the blank. Oestrogen : Oogenesis Prolactin : Lactation Oxytocin : ______ (A) Thickness of endometrium

- (B) Secondary sexual character
- (C) Rhythmic contraction of uterus during delivery of the baby
- (D) Provides protection against intestinal and respiratory functions
- 156. The carcinogenic toxic gas released during cigarette smoking is:

 (A) Nitrogen oxide
 (B) Methyl Iso cyanate
 (C) Methyl mercury
 (D) Benzopyrene

 157. Geetha is unable to walk in a straight line. Which part of the brain is affected?

 (A) Cerebrum
 (B) Cerebellum
 (C) Medulla oblongata
 (D) Hypothalamus

158.	In a case of snake bite, doctor treats the patient,	with preformed antibodies. What type of immunity it develops	?
	(A) Innate immunity	(B) Naturally Active Acquired immunity	
	(C) Artificially Active Acquired immunity	(D) Naturally Passive Acquired immunity	

159. Match the organisms given in Column- I with the nutritional processes given in Column – II

	COLUMN - I		COLUMN - II]
(A)	Leech	(I)	Holozoic Nutrition	
(B)	Amoeba	(11)	Autotrophic Nutrition	
(C)	Mushroom	(III)	Parasitic Nutrition	
(D)	Green plant	(IV)	Saprophytic Nutrition	
(A) ((II), (IV), (I), (III) (B) (III), (I),	(IV), (I	I) (C) (I), (IV), (III), (II) (D) (IV), (IIII)	, (II), (I)

- 160. Mendel crossed tall plant with dwarf plant in his famous experiment on Pisum sativum. In the first generation, he got only tall plants. Because:
 - (A) The parental plants were heterogenous to their characters
 - (B) The soil was fertile
 - (C) The parental plants were pure to their character
 - (D) The tallness character was a recessive character

SOCIAL SCIENCE

161.	The treaty concluded after the I (A) Treaty of Nanking	l Indo – China war was (B) Treaty of Peking	(C) Treaty of Shimonos	eki (D) Treaty of London
162.	Mussolini was the editor of Soci (A) New India	alist Newspaper called (B) Avanti	(C) Mein Kemph	(D) Social contract
163.	The working languages of the U (A) Arabic and Chinese (C) English and French	Inited Nations are	(B) Chinese and Englis (D) Russian and Spanis	
164.	The Indian who headed the Uni (A) Mrs. Vijayalakshmi pandit (C) Dr. Muthulakshmi reddy	ted Nations General Ass	embly in 1953 was (B) Moovalur Ramamiro (D) Dr. S. Dharmambal	dham Ammaiyar
165.	Pick the odd man out: Neelakesi, Choolamani, Yapper (A) Choolamani	umkalam, Kundalakesi (B) Kundalakesi	(C) Neelakesi	(D) Yapperumkalam
166.	was known as the 'World' (A) Napoleon III	l's First Compiler of Law' (B) Hammurabi	(C) Confucius	(D) Cheops Khufu
167.	Plato wrote (A) The Republic (C) Justinian Code	(B) The law of Twelve ta (D) Meditations	ables	
168.	$\frac{1}{(A) \text{ Hitler}}$ was defeated in the battle	e of Waterloo. (B) Mussolini	(C) Stalin	(D) Napoleon Bonaparte
169.	The Brihadeeshwara temple wa (A) Cheras	s built by the (B) Pandyas	(C) Pallavas	(D) Cholas
170.	The Tower temples were also k (A) Ziggurants	nown as (B) Phramids	(C) Hanging Garden	(D) Tower of Badel
171.	"Man is the maker of his own de (A) Gauthama	estiny" was stressed by _ (B) Mahavira	(C) Laotze	(D) Zoroaster
172.	The Longitude that helps us to a (A) 80° E	calculate the Indian Stan (B) 82" 30' E	dard time is; (C) 82" 50' E	(D) 81" E

173.	The Sorrow of Bihar is (A) kosi	(B) Yamuna	(C) Brahmaputra	(D) Ganga		
174.	"There is enough for everybody (A) Mahatma Gandhi	's need and not for an (B) Jawaharlal Nehru		ced out by: (D) Indira Gandhi		
175.	The main objective of National (A) Bring 33% of geographical (C) Maintain 30% of geographic	area under forests		raphical area under forests raphical area under forests		
176.	Compressed Natural Gas (CNC (A) Available at cheaper rate (C) It is used in power and fertil	, 0 1	(B) Low emission of ca	lar because: (B) Low emission of carbon dioxide (D) None of the above		
177.	Choose the correct order of arr (A) Anthracite, Bituminous, Ligr (C) Anthracite, Lignite, Charcoa	nite, Charcoal.		al, Bituminous, Lignite		
178.		as made roof top rainw	ater harvesting structure	compulsory to all the houses across		
	the state: (A) Rajasthan	(B) Maharashtra	(C) Karnataka	(D) Tamil Nadu		
179.	Srirangam, is a/ an area (A) Island	(B) Plateau	(C) Coastal Plain	(D) Hilly		
180.	Shrinking of forest cover is mai (A) Over population	nly because of: (B) Urbanization	(C) Industrializations	(D) Farming activities		
181.	'Finland of Tamilnadu' is: (A) Kancheepuram	(B) Villupuram	(C) Ooty	(D) Tirunelveli		
182.	. Geographical surname, "Detroit of Southern Asia" refer to: (A) Bengaluru (B) Mumbai (C) Chennai (D) New Delhi					
183.		on prohibits any child	below the age of 14 from	n working in dangerous, hazardous		
	employment like mining? (A) 19	(B) 23	(C) 24	(D) 26		
184.	Name the presidency Constitue (A) Madras	ency in which women w (B) Bombay	vere enfranchised for the f (C) Calcutta	irst time in India. (D) Bengal		
185.	The President of World Bank is (A) UK	always the citizen of: (B) USA	(C) Russia	(D) France		
186.	Name the country which has si (A) China	ngle party system. (B) Britain	(C) Singapore	(D) Ghana		
187.	 87. Which Indian state has its own Constitutions? (A) Jammu and Kashmir (B) Maharashtra (C) Uttarakhand (D) Nagaland 					
188.	Here are some of the guiding values of the Constitutions and their meanings. Match them correctly:					
	Guiding V			aning		
	(A) Sovereign		overnment will not favour			
	(B) Republic		eople have the supreme r			
	(C) Fraternity (D) Secular		he state is ruled by the ele eople should live like broth			
	(A) (II), (I), (IV), (III)	(B) (III), (IV), (I), (II)	(C) (IV), (III), (II), (I)	(D) (II), (III), (IV), (I)		
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189.	 What is the role of Amnesty International? (A) To work for international peace (B) To stop arms race in the world (C) Collecting information about condition of International prisoners (D) None of the above 						
190.	(A) District Court	Guardian of the Constitu (B) Magistrate Court	tion'. (C) High Court	(D) Supreme Court			
191.	Which state has bicameral legis (A) Tamil Nadu	latures? (B) Gujarat	(C) Bihar	(D) Kerala			
192.	Name the Chief Election Comm (A) Nassim Zaidi	issioner of India (B) Rajesh Lakhoni	(C) H.S. Brahma	(D) V.S. Sampath			
193.	Pick the odd man out: (A) Mrs. Sumitra mahajan (C) Mrs. Meera kumar		(B) Mrs. Sushma Swaraj (D) Mrs. Najma Heptullah				
194.	The growth rate of a country is decided by (A) The growth in literacy rate (C) The quality of the population		(B) The growth in employment opportunities(D) the growth of the economy				
195.	The state that has the lowest Int (A) Andhra Pradesh	fant Mortality Rate in Ind (B) Tamil Nadu	ia is: (C) Kerala	(D) Rajasthan			
196.	The head of the Planning Comn (A) The Vice President	nission in India is : (B) The Prime Minister	(C) The President	(D) A Cabinet Minister			
197.	Pick the odd man out: (A) Income Tax	(B) Road Tax	(C) Water Tax	(D) Property tax			
198.	The process of withdrawal of Ur (A) BREXIT	nited Kingdom from the E (B) BRIXTON	European Union is called: (C) BRICS	(D) BREXTON			
199.	If a mother is taking care of chi she performing ? (A) Market activity (C) Economic activity	ldren and household act	tivities within the walls of (B) Non – market activit (D) Non – economic act				
200.	'Green Revolution' is associated (A) Sugar	d with the production of: (B) Pulses	(C) Wheat	(D) Cereals			

SCHOLASTIC APTITUDE TEST

Part – II

Answer Key

101.B	102.A	103.B	104.B	105. no option is correct
106.B	107.B	108.C	109.D	110.C
111.B	112.B	113.A	114.A	115.A
116.C	117.C	118.C	119.C	120.C
121.A	122.A	123.C	124.A	125.C
126.B	127.A	128.D	129.D	130.B
131.A	132.B	133.A	134.A	135.C
136.B	137.A	138.B	139.A	140.B
141.A	142.B	143.C	144.A	145.B
146.B	147.C	148.B	149.B	150.B
151.A	152.A	153.B	154.B	155.C
156.D	157.B	158.no option is	s correct 159.B	160.C
161.B	162.B	163.C	164.A	165.D
166.B	167.A	168.D	169.D	170.A
171.A	172.B	173.A	174.A	175.A
176.B	177.A	178.D	179.A	180.A
181.A	182.C	183.C	184.A	185.B
186.A	187.A	188.D	189.C	190.D
191.C	192.A	193.D	194.D	195.C
196.B	197.A	198.A	199.D	200.C