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NTSE-2017

PART-3

SCHOLASTIC APTITUDE TEST

(MATHS)

101.	$U = \{x \mid x \in \mathbb{N}, x < 5\}, A = \{x \mid x \in \mathbb{N}, x \le 2\}$ THEN a' =					
	(A) {1,2}	(b) {1,2,3,4,5}	(C) {3,4}	(D) {3,4,5}		
102.	0.235 is a	number				
	(a) Natural	(B) Integer	(C) Rational	(D) Irrational		
103.	Which one is the	e constant term of $4x^3 - 3x^2 +$	- 2x -5			
	(a) 4	(b) -5	(c) 2	(c) 2 (d) -3		
104.	Point (4,0) lies o	n				
	(A) \overrightarrow{XO}	(b) \overrightarrow{YO}	(c) \overrightarrow{OX}	(D) \overrightarrow{OY}		
105.	. Line y = 4 is					
	(a) Parallel is Y-Axis (b) Parallel to X –Axis					
	(c) Intersecting both axes (c) Passes throw origin					
106.	was the most logical and abstract creator of Euclid's geometry approach.					
	(a) Hilbert	(B) Bhaskaracharya	(C) Thelus	(D) Pythagoras		
107.	If P-Q-R, Thenis the opposite ray of \overrightarrow{QR}					
	(a) \overrightarrow{PQ}	(b) \overrightarrow{QP}	(C) \overrightarrow{RQ}	(D) \overrightarrow{PR}		
108.	An angle is the union set of					
	(a) Lines	(B) Line segments	(c) Rays	(d) A line segment and a ray		
109.	The sum of all six exterior angles of a triangle is_					
	(a) 180	(b) 360	(c) 720	(d) 90		

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110.	If diagonals of a quadrilateral are not conjugate and bisect at right angle, then such quadrilateral is known as					
	(a) Square	(b) rectangle	(c) trapezium	(d) rhombus		
111.	□ ABCD is a rhor	mbus. If ABCD = 160 and AC =	= 16 then BD =			
	(a) 10	(b) 20	(c) 15	(d) 25		
112.	The length of minor arc \widehat{AB} of \odot (P, 7) is 14. Find the length of major arc \widehat{AB}					
	(a) 18	(b) 21	(c) 28	(d) 30		
113.	The length of the	e edge of equilateral triangle	is 8cm. Then semi circun	nference of such triangle is _cm.		
	(a) 4	(b) 24	(c) 12	(d) 36		
114.	The formula of la	ateral surface area of cylinde	eris			
	(a) A = 2πrh	(b) A= 2πr	(c) $A = \pi r^2$	(d) $A=2\pi r^2 h$		
115.	Upper limit of class '41-50' is					
	(a) 41	(b) 50	(c) 45	(d) 91		
116.	G.C.D of 4 and 19 is					
	(a) 1	(b) 4	(c) 19	(d) 76		
117.	The polynomial having 3 degree is known as					
	(a) Linear	(b) Quadratic	(c) Polynomial	(d) Trinomial (cubic)		
118.	If $\frac{x+y}{xy} = 2$ and $\frac{x-y}{xy} = 6$ then $y = \underline{\hspace{1cm}}$					
	(a) 1/4	(b) -1/2	(c) -1/4	(d) 1/3		
119.	Find the product of zeros of the quadratic polynomial: $x^2 - 4x + 3$					
	(a) 1	(b) 3	(c) 4	(d) -4		
120.	In ΔABC, ∠B is right angle. If a =16 and c =12 then b =					
	(a) 8	(b) 18	(c) 20	(d) 28		

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SCIENCE AND TECHNOLOGY

121.	magnitude?					
	(a) Speed	(b) Path length	(c) Displacement	(d) Temperature		
122.	Which Newton's	Which Newton's law of motion gives magnitude of force?				
	(a) First	(b) Second	(c) Third	(d) None of these		
123.	Which of the foll	lowing physical quantity is sc	alar quantity?			
	(a)Mass	(b) Force	(c) Impulse of force	(d) Momentum		
124.	Give the SI unit o	of Density?				
	(a) Kg	(b) m2	(c) kg/m ²	(d) kg/m		
125.	What is the full f					
	(a) Petrol Natura	ıl Gas	(b) Pressurize Natural Gas			
	(c) Pipe Natural Gas (d) Pure Natural Gas		(d) Pure Natural Gas			
126.	Which of the foll	lowing is a monatomic molec	cular?			
	(a) Nitrogen	(b) Hydrogen	(c) Helium	(d) Oxygen		
127.	Which Newton's law of motion defines force?					
	(a) First	(b) Second	(c) Third	(d) None		
128.	3. Density of water is					
	(a) 1000kg/m ³	(c) 1kg/m ³	(c) 1000g/cm ²	(d) 100kg/m ³		
129.	What is the approximate diameter of human hair?					
	(a) 500nm	(b) 5000nm	(c) 50nm	(d) 50000nm		
130.	What is the orbital period of Halley 's Comet?					
	(a) 66years	(b) 76years	(c) 86years	(d) 96years		
131.	. Where is the image of an object formed in human eye?					
	(a) Iris	(b) Pupil	(c) Retina	(d) Cornea		

			2		
32.		it of electric potential diffe			
	(a) Volt	(b) coulomb	(c) Joule	(d) Watt	
33.	In which state of a substance, it has the shape?				
	(a) Liquid	(b) Liquid and Gas	(c) Gas	(d) Solid	
34.	Which of the following is correct for X-rays?				
	(a) It is beam o	f electrons	(b) It is electromagr	netic waves	
	(c) It is positively charged particle (d) It is negatively charge particle		harge particle		
35.	State the atomic mass of H₂O?				
	(a) 16 U	(b) 17 U	(d) 18 U	(d) 15 U	
36.	Who was the scientist to make attempts for giving explanatory definition of element?				
	(a) Rontgen	(b) Dalton	(c) Rutherford	(d) Laveziour	
37.	Which bond is present in oxygen atom?				
	(a) Ionic bond		(b) covalent divalen	t bond	
	(c) Covalent bo	ond	(d) covalent trivaler	(d) covalent trivalent bond	
.38.	1 kWh =				
	(a) 3.6 x10 ⁶	(b) 36 x 10 ⁶	(c) 3.6×10^7	(d) 3.6×10^5	
39.	Who discovered γ -rays?				
	(a) Rutherford	(b) Thomson	(c) Willard	(d) Dalton	
40.	Which radiation was discovered by Rutherford?				
	(a) α & β	(b) $\beta \& \gamma$	(c) α & γ	(d) $\alpha, \beta \& \gamma$	
.41.	Which chemical is formed when non metallic oxides react with water?				
	(a) Metal	(b) Base	(c) Minerals	(d) Acid	
	. ,	\-/	(-)	V-1	

(c) $CaCO_3$ (d) Al_2O_3

(a) Ag₂S (b) AgCl

How many elements are there in non metal? 143. (a) 14 (B) 18 (c) 88 (D) 114 What percentage of carbon in Bituminous Coal? 144. (d) 94-98% (a) 28-30% (b) 28% (c) 78-86% Which is the largest cell in human body? 145. (a) Liver cell (b) Nerve cell (c) Muscle cell (d) Kidney cell 146. Who has given the word 'Cell'? (a) Robert Hook (c) Robert Brown (c) Watson and Crick (d) Flamming 147. Which is the living component of xylem? (a) Tracheid (b) Xylem fibre (c) Xylem parenchyma (d) Trachea 148. Living mechanical tissue is_____ (c) Sclerenchyma (a) Parenchyma (b) Collenchyma (d) Chlorenchyma 149. Which of the tissue has deposition of Pectin? (a) Collenchyma (b) Sclerenchyma (c) Phloem (d) Xylem Where is the place of Ciliated epithelium Tissue? (a) Ureter (b) Liverduct (C) Fallopian tube (d) Bileduct 151. Bone is_____ (a) Epithelium tissue (b) connective tissue (c) Muscular tissue (d) Nervous tissue 152. Which one of the infections disease? (A) T.B (b) Goiter (c) Diabetes (d) Hypertension 153. Which one is belongs to 'Retro virus group'? (a) Dengue Virus (b) Hepatitis virus (c) Influenza virus (d) HIV 154. Who is responsible for malaria? (c) Plasmodium (a) Bacteria (b) Virus (d) Worm

155. Where is the Gaseous exchange takes place during respiration is human being? (a) Bronchi (b) Pharynx (c) Larophaynx (d) Trachea 156. How many chambers are present in human heart? (d) 6 (a) 2 (b) 3 (c)4157. The spinal cord originates from where? (a) Cerebrum (b) Cerebllum (c) Medulla oblongata (d) Pones 158. In which of the following living organisms spore information take place? (b) Planaria (d) Potato (a) Mucor (c) spirogyra The countinuity of features from one generation to another is known as_____ 159. (a) Evolution (b) Mutation (c) Generation (d) Heredity 160. Which specie of Italian honey bee is useful for honey production? (d) Epis meliphera (a) Epis serena indica (b) Epis flora (c) Epis corseta

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SOCIAL SCIENCE

161.	Who discovered "Cape of Good Hope" island?					
	(a) Columbus	(b) Bartholomew Diaz	(c) Vasco – de- Gama	(d) Amerigovesupuchi		
162.	When did Britishers establish the Head Quarter in Bombay?					
	(a) 1613	(b) 1608	(c) 1680	(d) 1667		
163.	When did the Fir	st World War start?				
	(a) 1 st August,193 Aug.,1914	14	(b) 8 th August 1914	(c) 14 th Aug.,1914 (d) 20 th		
164.	Who established	'Fascism' in Italy?				
	(a) Hitlor	(b) Mussolini	(c) Lanin	(d) Nepolian		
165.	In which country	was national flag hoisted pr	repared by madam Cama?			
	(a) France	(b) Russia	(c) Germany	(d) Japan		
166.	Which festival wa	as there is in Punjab when Ja	allianwala Bagh massacre	occurred?		
	(a) Baishakhi	(b) Diwali	(c) Holi	(d) Ramazan Id		
167.	Which one of the following not included in the state known as 'seven sisters'?					
	(a) Assam	(b) Sikkim	(c) Manipur	(d) Tripura		
168.	Which day is celebrated as "Human Rights Day"?					
	(a) 19 December	(b) 12 December	(c) 15 December	(d) 10 December		
169.	Which kind of democracy governance system there in our country?					
	(a) Presidential	(b) Parliamentary	(c) Independent	(d) Neutral		
170.	Where is India lies on in Asia continent?					
	(a) South	(b) North	(c) East	(d) West		
171.	Which canal has reduced the distance between Europe and India?					
	(a) Panama	(b) Alaska	(c) Suez	(d) Nile		

By which name is the delta region of the Ganga and Brahmputra known as? (a) Taheri (b) Pamir (c) Vrundavan (d) Sundarvan By which name is the some rainfall at Malabar coast known as? 173. (A) Amra Vrushti (b) Ana Vrushti (c) Him Vrushti (d) Cyclone In which state are wild goats and musk(Kasturi) deer found? 174. (a) Andhra Pradesh (b) Gujarat (c) Jammu and Kashmir (d) Assam 175. Which fair of Gujarat is famous for buy and sale of donkeys? (a) Tarnetar (B) Siddhapur (c) Bhavnath (d) Vautha What does 'Tsunami' means in Japanese language/ (a) Upward tidal waves (b) Destructive waves (c) Spiral waves (d) Downward tidal waves In which sea "Lakshadweep" Island located? 177. (a) Bay of Bengal (b) Arabian Sea (c) Indian Ocean (d) Pacific ocean After gaining independence which state was the first to join Indian Union? 178. (d) bhavanagar (a) Morbi (b) Junagadh (c) Patiyala 179. Who established a political party "Forward Bloc"? (a) subhashchandra Bose (b) Khudiram bose (d) Satyendranath bose (c) Rashbihari bose Which British system was like "sweet poison"? 180. (a) Revenue Policy (b) Policy of annexation (d) Permanent Deposit Policy (c) Subsidiary Alliance 181. Who was the pioneer of armed revolution in Gujarat/ (a) Barindra Ghosh (b) Mohanlal Panday (c) chhotubhai Purani (d) Aurbindo Ghose 182. When did the people of Germany broke down the "Berlin Wall"? (a) 1990 (B) 1991 (c) 1989 (d) 1992

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183.	What type of government was established to join Indian union by the people of Junagadh?				
	(a) Responsible Govt.		(b) Independent Govt.		
	(c) Arzai Hakumat		(d) Federal Government.		
184.	In which district	Rangpur, having archaeolog	ical importance in situate	d?	
	(a) Surendranag	ar (b) Ahmedabad	(c) Rajkot	(d) Patan	
185.	Who were the direct decendent of Stone Age civilization and creator of Mohenjo-Daro's sinculture?				
	(a) Aryan	(b) Mongoloid	(c) Dravid	(d) Armenoid	
186.	The day of 21 st June known as?				
	(a) Environment	Day (b) World yoga Day	(c) Mother Day	(d) World Peace Day	
187.	Which Veda is k	nown as Gangotri of Music?			
	(a) Rigveda	(b) Atharveda	(c) Yajurveda	(d) Samveda	
188.	In which language did Abul Fazal write the Akabarnama?				
	(A) Farsi	(b) Arabi	(c) Urdu	(d) Pali	
189.	Which ancient university was situated at Badgaon village of Patna district of Bihar?				
	(a) Takshshila	(b) Vallabhi	(c) Nalanda	(d) Bikramshila	
190.	Name the Indian mathematician who discovere zero?				
	(a) Aryabhatta	(b) Bhaskarachary	(c) Brahmgupta	(d) Lilawati	
191.	Which book of maths had been written by Bhaskaracharya?				
	(a) Aryabhattiya	m (b) Lilavati Ganit	(c) Dash Gitika	(d) Arya Siddhant	
192.	Who built the Red fort of Delhi?				
	(a) Akbar	(b) Humayun	(c) shahjahan	(d) Jahangir	
193.	Which wild life is totally extinct from Gujarat forest area?				
	(a) Leopard	(b) Tiger	(c) Deer	(d) Lion	
194.	Which country is	s the highest exporter of in t	he world?		
	(a) China	(b) Pakistan	(c) America	(d) India	

195. Which crop is known as "White Gold" in India? (a) Cotton (b) Millet (c) Paddy (d) White kidney beans 196. Where is the largest oil refinery of the world is located? (a) Dubai (b) Gauhati (c) Jamnagar (d) Kuwait 197. Which Indian city is well-known as "Silicon Valley" of India? (a) Hyderabad (b) Nagpur (c) Mumbai (d) Bengaluru Which term is used for families living under the poverty line? 198. (a) APL (b) BPL (C) GPL (D) CPL Which economist of Indian origin propound the Human development index? 199. (a) Dr. Amartya Sen (b) Dr. H.M Patel (c) Dr. Manmohan Singh (d) Raghuram Rajan 200. Which poetry is not written by kalidas? (a) Kumarsambhava (b) Raghuvansh (c) Dashkumarcharit (d) Rutusamhar