NTSE STAGE – I (2017-18) SET-D HARYANA STATE MENTAL ABILITY TEST (MAT)

1. Arrange the following words as per order in the dictionary.

1. Dissident, 2. Dissolve, 3. Dissent, 4. Dissolute, 5. Dissolution

1. 3,1,4,2,5 2. 3,1,4,5,2 3. 3,2,4,5,1 4. 3,2,1,4,5

2. In a race Amar was running faster than Bipin. Chetan could not run as fast as Amar but ran faster than Deepak. Bipin too could not run as fast as Chetan but ran faster than Deepak.

Who will be the winner in the race?

1.Deepak2.Chetan3.Bipin4.Amar

3. If Friday falls on 15th of September 2000, what will be the day on 15th of September, 2001?

1. Thursday2. Friday3. Saturday4. Sunday

Direction: (Q.4 to Q.6): Select the one word-pair / number-pair/letter cluster which is different from the other three alternatives.

4. 1. Light: Heavy 2. Kind: Cruel 3. Soft: Hard 4. Vacant: Empty

5. 1. 18 : 48 2. 30 : 80 3. 40 : 110 4. 48 : 134

6. 1.DIMPR 2.HMQTV 3.QVZBC 4.UZDGI

7. At present the father is older than the son by 25 years. After 13 years the father's age

becomes double that of son. What is father's age now?
1. 26 years
2. 37 years
3. 38 years
4. 50 years

8. In a row of boys, Vishal is seventh from the left and Kamal is eleventh from the right. When they exchange their places, Vishal is thirteenth from the left. What is the new position of Kamal from the right?

1. 16th 2. 17th 3.18th 4. 19th

9. In an examination some questions carry 2 marks each and some others 4 marks each. A student scored 40 marks by attempting 15 questions correct in all. How many questions carrying 2 marks did he attempt correctly?

1.15 2 12 3.8 4.10 **Direction:** (Q.10 to Q.12): are based on following information.

married couple. 'T' is the brother of 'R'. 'S' is the daughter of 'P', and 'V' is the Aunt of 'Q'.			
10.	Who is the mother of 'Q'? 1. P 3. S	2.R 4.T	
11.	How is 'T' related to 'Q'? 1.Father 3.Son	2. Brother 4. Uncle	
12.	Who is the wife of 'T'? 1. R 3. S	2. V 4. P	
13.	From the given alternative words, select the v	word which cannot be formed using the letter of	
	the given word: 1. COMMON 3. MISSILE	SIONER 2. MISSION 3. SIREN	
14.	Select the correct combination of numbers meaningful word. NSGREI 5 4 32 10 1.025314 3.504231	so that letters arranged accordingly will form a 2.315402 4.405312	
15.	In a certain code language, DIAMOND is w written in that code language? 1. FMJSVNS 3. FMJVSSN	ritten as EMPLBHE. How will ROUTINE be 2. FOJUVPS 4. SNVSJMF	
16.	In certain code language GUIDE is written will DIAGRAM be written in	as APD and MARCH is written as How same code language?	
	1.	2.	
	3.	4.	
17.	If MY = 16, SUN = 27 then HOTEL will be 6 1. 60 3. 77	equal to: 2. 75 4. 80	
18.	If 'water' is called 'air', 'air' is called 'tree', 't is called 'fire', where do aeroplanes fly? 1. water 3. fire	ree' is called 'sky', 'sky' is called 'sea' and 'sea' 2. sky 4. sea	
19.	How many '8's, are there followed by an even the given number sequence? 584783285482986854878428645849 1. 2 3. 4	en number and preceded by an odd number in 2. 3 4. 5	

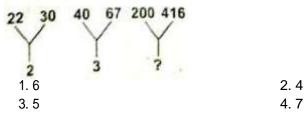
P, Q, R, S, T and V are relatives. 'Q' is the son of 'R' but 'R' is not the mother of 'Q'. 'P' and 'R' is a

20. J, K and L are educated; J, L and M are hard-working; L, M and N are employed; J, K, M and

21. If 'S' denote '+', 'D' denotes '', 'Q' denotes '' and 'P' denotes 'x', then value of following equation is:

Direction: (Q.22 to Q.23): Select the missing number from the given responses.

22.



23. 14 25 42 2 4 6 3 3 ? 4 7 9 1.7 2.6 3.4

Direction: (Q.24 to Q.25): Some equations are solved on the basic of a certain system. On the same basis, find out the correct answer, from amongst the four alternatives, for the unsolved equation.

Direction: (Q.26 to Q.27): are based on the following data.

3.96

Vaibhav walks 2 km to east, turns right and walks 1 km and then turns left and walks 4 km and again turning to his left travels 9 km.

4.124

26. In which direction is Vaibhav now from his starting point?
1. North
2. North-East

North
 North-East
 West
 South-West

27. What is the shortest distance between Vaibhav's starting point and the present position?

1.6 km 2.8 km 3.10 km 4.12 km **Direction:** (Q.28 to Q.29): Take the given statements as true even if they seem to be at variance from commonly known facts and decide which of the conclusions logically follows from the statements:

28. Statements:

All flowers are fruits. Some fruits are vegetables. No vegetable is tree.

- II. Some trees are vegetables.
- III. Some fruits are trees.
- 1. Only conclusion I follow
- 3. Only conclusion I and II follows
- 2. Only conclusion II follow
- 4. Only conclusion II and III follows

29. Statement:

Adversity makes a man wise. Conclusions:

- I. The poor are wise.
- II. Man learns from bitter experience
- 1. If only conclusion I follow
- 3. If both I and II follows

2. If only conclusion II follow

- 4. If neither I nor II follows
- 30. "Some of the Football players are Badminton players, some Badminton players are Tennis players no Football player is a 'Tennis player'.

Which of the following venn diagrams correctly represents the above statement?

1.



2.



3.



31. There are two dots placed in the question figure. Find out the answer figure which has the possibility of placing the dots satisfying the same conditions as in the question figure?



1



2.

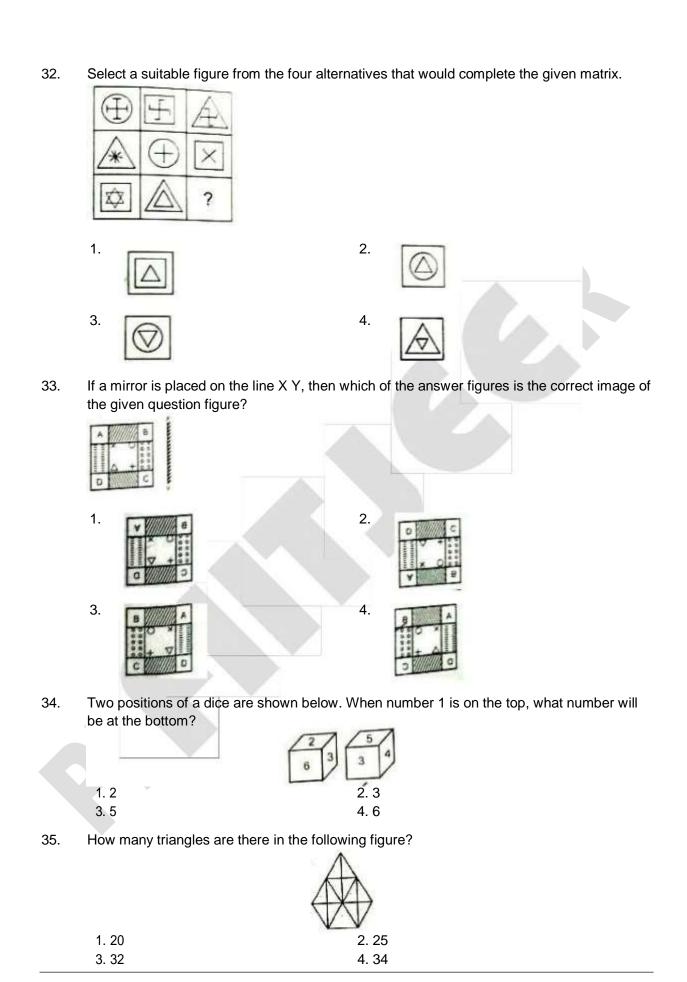


3.

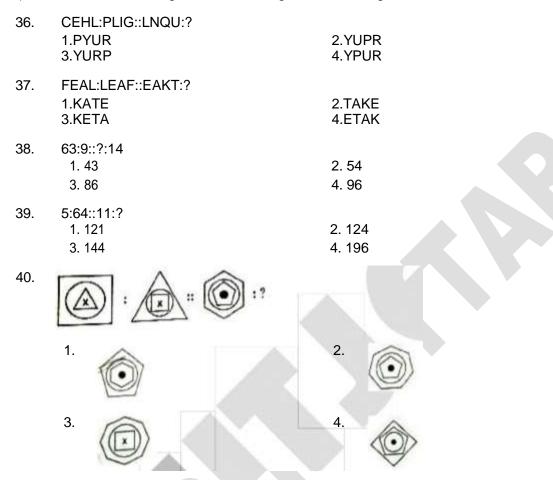


4.





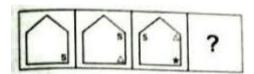
Direction: (Q.36 to Q.40): In the following questions, there is a relationship between the letters / numbers / figures on the left of the sign (: :). The same relationship exists to the right of the sign (: :), of which one is missing. Find the missing term from the given alternatives.



Direction: (Q.41 to Q.45): In the following questions, some letter clusters/numbers/figures are given in a sequence. Find the missing term to replace the question mark from the given alternatives.

41.	REOC,PGME,NIKG,? 1.MJJI 3.LKJH	2.LKII 4.KLIG
42.	BYCX,DWEV,FUGT,? 1.JSHR 3.HSRJ	2.HRJS 4.HSIR
43.	6, 11, 26, 71, 206, ? 1, 244 3, 611	2. 496 4. 632
44.	81, 192, 375, ?, 1029 1. 686 3. 484	2. 648 4. 468





1.



2.



3.



4.



- 46. Arrange the following words in a logical order.
 - 1. Leaf 2. Fruit 3. Stem 4. Root 5. Flower

1. 4,1,3,5,2 3. 4,3,1,5,2 2. 4,3,1,2,5

2. 27

4. 4,5,1,3,2

47. Which one number is wrong in the number

series? 13, 17, 19, 23, 27, 29 1. 29

17, 10, 20, 27, 20

3. 23

Direction: (Q.48 to Q.50): are based on following information.

A group of friends is sitting in a square facing the centre. They are sitting one each at the corners and one each at the midpoints of the sides of the square. Madhvi is sitting diagonally opposite to Uma who is to Girija's right. Rajesh is next to Girija and opposite to Gyan who is on Vinod's left. Satish is not on Madhvi's right but opposite to Priya.

48. Who is opposite to Vinod?

1.Girija 3.Priya 2. Madhvi

4. Satish

49. Who is between Gyan and Madhvi?

1.Rajesh 3.Vinod 2. Satish

4 Priya

50. If Gyan and Rajesh interchange their places, who will be to the left of Gyan?

1. Satish

2. Priya

3. Vinod

4. Girija

NTSE STAGE - 1 (2017-18)

SET-D HARYANA STATE LANGUAGE TEST

Direction: (Q 51 to 60) Choose the word which best fits the blank from the given four

51.	The birth of a girl child in Indian society is	
	 Unwelcomeness unwelcomely 	unwelcome unwelcomingly
52.	We should plant a number of tree	es to reduce the environmental pollution.
	1. great 3. large	2. big 4. high
53.	The tireless work and selfness help of the polynomial occasion 3. situation	eople controlled the within a few day. 2. event 4. incident
54.	Three children have been from the so 1. removed 3. crased	chool for persistent bad behavior. 2. deleted 4. abolished
55.	Tanu Bhardwaj, a young poetess have be impressive poetry. 1. adorable 3. additive	en receiving a lot of publicity for her 2. adverse 4. average
56.	The Kapil Sharma show has been the 1. valued 3. evaluated	e best comedy show of the year. 2. rated 4. viewed
57.	The chief guest was at the school. respected 3. humoured	pol gate by principal and other staff members. 2. greeted 4. welcomed
58.	All firsts of the baby are in the part of the pa	arents memories. 2. carved 4. etched
59.	Market leaders usually want tothe protect their current market share. 1. establish 3. dominate	neir market share even further, or at least to 2. increase 4. decrease
60.	Children grow up and eventually start leading 1. refers 3. relates	ng their individual life 'a life that to them' 2. belongs 4. concerns

mean	ing as shown in the options)		
61.	The police are the robbery of 1. finding in 3. looking on	a famous painting. 2. finding out 4. looking into	
62.	You have missed many lessons, so now you not be seen to be seen as a seen with the see	ou will have to the other students. 2. hurry up 4. mix with	
63.	My brother's wedding was originally sched November 24. 1. put up 3. put away	uled for May 14, but it has been until 2. put off 4. put to	
The fo	tion: (Q 64 to 65) bllowing questions have the second sentence the given option to complete it.	e missing. Choose the appropriate sentence	
64.	 (i) Margaret traveled about with some of the missionaries of the Ramakrishana Mission a saw different part of India. (ii) (iii) She learnt the ways and manners of Indians. 		
	This was something Margaret did She must have been some genius	2. This is simply impossible for us to think of4. She visited different holy places in India.	
65.	the evolution of law is slow. 1. People commit computer crimes because	because the evolution of technology is fast, but e of easy availability of computers e of society' declining ethical standards more e controls can't be implemented.	
Direc	tion: (Q 66 to 68) Select the word which me	ans the opposite of the given word.	
66.	Annoy: 1. award 3. praise	2. please4. applaud	
67.	Inclined: 1. fair 3. neutral	2. impartial4. biased	
68.	Confess: 1. concede 3. deny	2. contest4. admit	

Direction: (Q 61 to 63) Fill in the blank choosing the most appropriate option (giving the similar

Direction: (Q 69 to 70) Select the word to fill in the blanks from the given alternatives.			
69.	I in a poor family of Haryana. 1. bear 3. bore	2. am born4. was born	
70.	Five hundred new houses by the 1. were built 3. will be built	e end of next year. 2. were being built 4. will build	
	ion: (Q 71o 80 In the following passage the ecting the most appropriate word for each bl	re are some numbered blanks. Fill in the blanks ank from the given options.	
harass daugh the p (75) _ undesi easily the yo for the	of dowry. Dowry is responsible for a large number of the marrister in Indian society is an unwelcome event. Doarents simply because of the large dowry whice boys and girls, can take a pledge irable practice. This problem directly conce fight it and (78) lives from being leuth in the rural areas (79) educate	can successfully undertake is to eliminate the umber of deaths of innocent married girls and ageable daughters. The birth of (73) It generates gloom and despair. (74) ch will be required for marrying the girl. The youth e (76) force their parents to stop this rns the youth (77) Therefore they can ost. The youth in the cities can get in touch with a them with a view of creating a mass movement gainst dowry (80) this social movement	
71.	1. this 3. who	2. that4. what	
72.	1. to 3. for	2. by4. of	
73.	1. any 3. a	2. the 4. each	
74.	1. with 3. among	2. to 4. for	
75.	1. every 3. all	2. both4. no	
76.	1. will 3. might	2. can 4. ought	
77.	 themselves herself 	2. himself4. itself	
78.	1. can save 3. save	2. saved4. saves	
79.	 yet although 	2. and4. but	
80.	 will nearly fail nearly failed 	2. had nearly failed4. have nearly failed	

Direction: (Q 81 to 85) Read the following passage carefully and answer the guestions based on it. Choose the most appropriate option.

The capitalist system of society does not foster healthy relations among human beings. A few people own all the means of production and others = though nominally few have to sell their labour under conditions imposed upon them. The emphasis of capitalism being on the supreme importance of material wealth and intensity of its appeal is to the acquisitive intensity to promotes warship of economic power with little regard to the means employed for the acquisition and the end that it serves. By the exploitation of human being to the limits of endurance its concentration is on the larger profit rather than maximum production. Thus, the division of human family is depend on the basis of economic circumstance. As this is injurious to division of human dignity. And when the harrowed poor turn into the founders of religion for succour, the rather offer a subtle defense for the established order. They promise future happiness for their present suffering and conjure up visions of paradise to redress the balance to soothe the suffering and this revolt of the tortured men. The system imposes injustice, the religion justifies it.

- 81. Capitalism is injurious to human relations because it divides society into two groups:
 - 1. working and non-working
- 2. exploiters and exploited
- 3. religious and irreligious
- 4. buyers and sellers
- 82. Ina capitalistic system of society each man wishes:
 - 1. to require maximum wealth
- 2. to produce maximum wealth
- 3. to have visions of paradise
- 4. to soothe the sufferings of others

- 83. In a capitalist system:
 - 1. the means justify the ends
 - 2. the ends justify the means
 - 3. the means endorsed by religion are strictly followed
 - 4. means which lead to exploitation are strictly prohibited
- 84. The passage indicates that the capitalist system is:
 - 1. fair 2. ambitious
 - 3. prosperous

- 4. dehumaning
- 85. The established order is supported by religion to
 - 1. alleviate the suffering of the poor in the capitalist system
 - 2. perpetuate the injustice imposed by the capitalist system
 - 3. balance the suffering of the poor with hopes of future rewards
 - 4. help the tortured men to seek redress

Direction: (Q 86 to 90) Read the following poem carefully and answers the questions based on it. Choose the most appropriate option:

I lay in sorrow, in deep distress,

My grief a proud man heard:
His looks were cold, he gave me gold,
But not a kindly word

My sorrow passed – I paid him back
The gold he gave to me.

Then stood erect and spoke my thanks
And blessed his charity

I lay in want and grief and pain

A poor man passed my way
He bound my head, he gave me bread,
He watched me night and day

How shall I pay him back again For all he did to me? Oh, gold is great, but greater far Is heavenly sympathy

- 86. How did the proud man help the poet when he was in deep distress?
 - 1. He took him home

2. He gave some money

3. He pitied the poet

4. He watched the poet day and night

- 87. What was the proud man did not give the poet?
 - 1. gold

2. sympathy

3. money

4. attention

- 88. How did the poor man take care of the poet?
 - 1. The poor man bound his head which was hurt
 - 2. The poor man gave him food and gold
 - 3. The poor man gave him some money
 - 4. The poor man gave food to the poet and took care of him day and night
- 89. Which of the following statement is not true?
 - 1. The poor man thanked the heavenly sympathy of the poet.
 - 2. When the poet was in sorrow he was given money
 - 3. The poet repaid his debt to the proud man by blessing his charity
 - 4. The poet says he cannot repay the poor man for his sympathy
- 90. Which word in the poem "feeling of pity or sorrow for the distress of another"?
 - 1. kindness

2. blessing

3. sympathy

4. charity

Direction: (Q 91 to 95) Read the following poem carefully and answers the questions based on it. Choose the most appropriate option:

It is becoming very dangerous to sit in the sun. If you have a fashionable suntan, it doesn't necessarily mean that you have lots of outdoor activities but it does mean that you are in greater danger of getting skin cancer and cataracts. The ozone layer, which protects us from the sun's dangerous ultraviolet rays, is progressively deteriorating. In February 1992, a scientist report said that people in Canada, Northern Europe and Russia were in serious danger in 1985. The news destruction of the ozone layer in the South Pole alarmed people as the Southern Hemisphere. In Australia, there are now three times more cases of skin cancer than in the past. In New Zealand, teachers tell school children to wear hats an not to sit in the sun. What causes the destruction of the ozone layer? Mostly chlorofluorocarbons (CFCs), aerosol sprays, refrigerators, air conditioner, as well as industrial chemicals, send chlorofluorocarbons into the atmosphere. Governments are now trying very hard to forbid CFCs, but it will be expensive and difficult to do so. After the first ozone alarm in the Southern Hemisphere, ecologists all over the world asked governments to take strict measures immediately. Some governments did, but not soon enough. Others countries believe that they have other problems which are more important. Now stricter measures are going to be taken, but already a lot of damage has been done.

91.	dangerous to the skin.			
	1.The ozone layer is	2. The atmosphere is		
	3. Ultraviolet rays are	4. The sand storm is		
92.	CFCs are caused by			
	1. researchers	2. ecologists		
	3. aerosol sprays and industries	4. archaeologists		
00	Fashianahla ayutan may			
93.	Fashionable suntan may			
	make you look dark	cause skin cancer and cataract		
	3. not be acceptable to all	4. not be acceptable to all		
94.	The author is not very			
	1. clear	2. hopeless		
	3. hopeful	4. offensive		
95.	The word 'deteriorate' in the passage m	eans		
	1. to become healthy	to become worse		
	3. to become strong	4. to become healthy and strong		
		,		

last sentences are given. Choose the right order in which the three sentences (PQR) should appear to complete the paragraph. S1. The proverb goes, "If speech silver, silence is golden". 96. S2. **S**3. S4 S5. We should talk when it is must. P – Above all, we should know when not to talk, how much to talk and what to talk. Q – It is an extremely precious quality to know when to talk, how much to talk and what to talk. R – We should therefore always remember to use our tongue sparingly. Choose from the options given below: 1. PRQ 2. RPQ 3. RQP 4. PQR 97. S1. The great advantage of early rising is that one can start one's work long before others. S2. S3. S4 S5. Also we find time to do some exercise in the fresh morning air. P – The early risers can do a large amount of hard work before other men get out of bed. Q – The work done at that time is generally well done. R – In the early morning, the mind is fresh and no sounds or noises disturb our attention. Choose from the options given below: 2. RPQ 1. PRQ 3. RQP 4. QPR Direction: (Q 98 to 100) Select the meaning of the given Idioms. 98. Bring to book (1) to punish (2) to write (3) to remember (4) to keep safe 99. Cry for the moon. (1) to weep on failure (2) to wish for something loving (3) to weep for a beautiful thing (4) to wish for something impossible

(2) different from each other

(4) write and eat

100.

Chalk and cheese

(3) similar to each other

(1) all white

Direction: (Q 96 to 97) The following four sentences come from a paragraph. The first and the

NTSE STAGE - I (2017-18)

SET-D HARYANA STATE SCHOLASTIC APTITUDE TEST (SAT)

101.	A number when divided by 5, 3 and 2 leaves remainders 4, 2 and 1 respectively. Out of all
	three digit numbers find the total such numbers

1. 28

2. 29

3.30

4. 31

102. If $\cos ec \cot p$, then the value of $\begin{array}{c} p_2 1 \\ is p^2 1 \end{array}$

1. cos

2. cos

3. sin

4. sin

103. If the sum of the first m terms of an A.P. is n and sum of its first n terms is m, then the sum of its first (m + n) terms is

1. m n

2. m n

3. m n

4. m n

104. If quadratic equation $x^2 px k 0$ has equal roots and -4 is a root of the quadratic equation $x^2 px 4 0$, then the value of k is

 $1.\frac{3}{2}$

 $2.\frac{3}{2}$

3.9

 $4.\frac{9}{4}$

105. A peacock sitting on the top of a tree observes a serpent in the ground making an angle of depression 30°. If the peacock with a speed of 300 m per minute catches the serpent in 12 seconds then the height of the tree is:

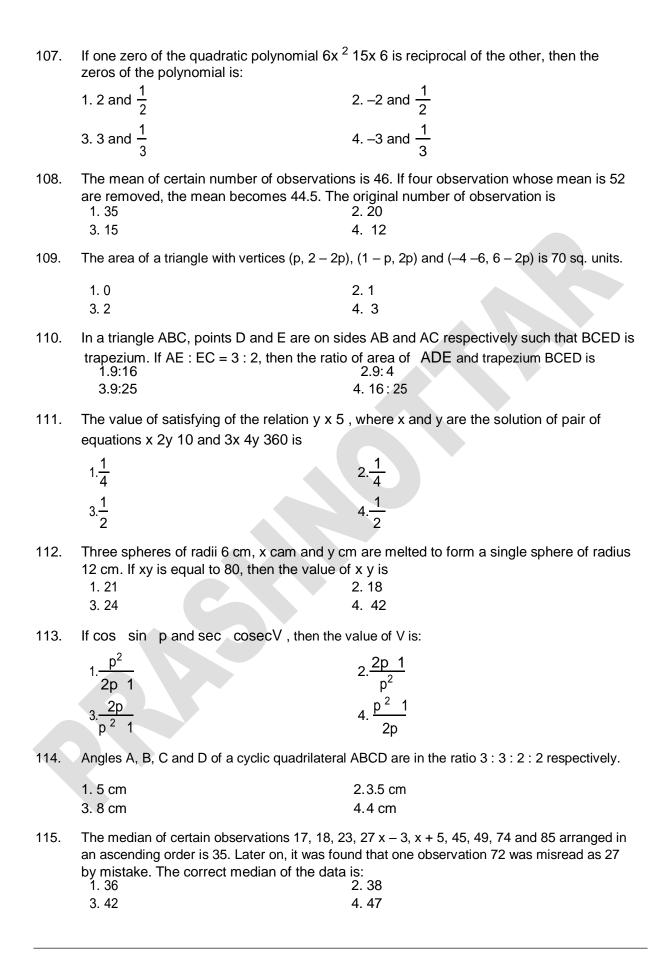
1.30 m

2. 30 3 m

3. $\frac{30}{3}$ m

4. 15 m

106. a, b and c are the side of a right angled triangle and a circle of radius r touches the sides of the triangle. If c is the hypotenuse of the triangle then the value of r is



116.	The sides of triangle are 61 cm, 54 cm and 35 cm respectively. The length of its longest altitude is:		
	1. 10√5 cm	2. 16√5 cm	
	3. 24√5 cm	4. 28√5 cm	
117.		s a regular coin whereas the other has tails on at random and tossed. Then, the probability of	
	1.0	$2.\frac{1}{4}$	
	3. $\frac{1}{2}$	$2.\frac{1}{4}$ $4.\frac{3}{4}$	
118.	quadratic equation x ² 6x 2d 0 . If there is	5x d 0, while a and c are the roots of the only one common root in the two equations,	
	then value of d is 1.–2	2. –4	
	3.2	4. 4	
119.	The mean, mode and median of the observobservation x is:	vation 7, 7, 5, 7 and x are the same. Then the	
	1.10	2. 9	
	3.8	4. 7	
120.		t B. If D and E are points on side AB such that	
	AD = DE = EB, then the value of $\frac{AC^2 EC^2}{DC^2 BC^2}$	is	
	1. 3 1	$2.\frac{5}{2}$	
	3. 9	4. 2 1	
121.	Non co – operation movement was withdra	awn due to:	
	1. Jalian Wala Bagh Masscare	2. Chauri –Chaura incident	
	3. Rowlatt Act Introduced	4. Nehru Report Rejection	
122.	The term 'Liberalism' is derived from the 'L		
	Democratic Socialist	2. Capitalist 4. Free	
100			
123.	The French Revolution occurred in which f 1. 1788	2. 1789	
	3. 1790	4. 1791	
124.	Who was the chief architect of the unificati 1. Chief Minister William – I 3. Chief Minister Ottovon Bismarck	on of Germany? 2.King William – II 4.King Kaisar	
125.	Who among the following was described a	s the most dangerous enemy of social order by	
	Duke Metternich?		
	 Louis Philippe Johan Gottfried 	Karol Kurpinski Guiseppe Mazzini	

126. The elites in Vietnam were powerfully influenced by which following culture? 2. American 1.Indian 3. European 4. Chinese 127. Who was the founder of Hoa Hao movement? 1. Huynh Phu So 2. Phan Boi Chau 3. Phan Chu Trinch 4. The official of Imperial court 128. In January 1930 Gandhi ji wrote a letter stating (asking) 'Eleven Demands' to whom? 1.Lord Irwin 2.Lord Curzon 3.Lord Ripon 4. Lord Lytton 129. Who was the first President of Indian National Congress? 1. Dada Bhai Naroji 2. Surendranath Banerjee 3. W.C. Bonnerjee 4. Gopal Krishna Gokhale 130. What was the theme of the movie 'Green Berets'? 1.To Glorify War 2. To Glorify Peace 3. To Glorify Socialism 4. To Glorify Capitalism Who is the writer of 'Vande Mataram'? 131. 1. Rabindranath Tagore 2. Subhash Chandra Bose 3. Raja Ravi Verma 4 Bankim Chandri Chatterjee (Chattopadhyay) 132. Trade Unions' first started in which of the following country? 1. England 2. America 3. France 4. Russia 133. Under which of the following type of resource can tidal energy be put? 1. Replenishable 2. Human made 3. Abiotic 4. Non - recyclable In which of the following state is laterite soil found? 134. 1. Jammu and Kashmir 2. Kerala 3. Uttarakhand 4. Jharkhand 135. Which of the following describes a system of agriculture where a single crop is grown on a large area? 1. Shifting Agriculture 2. Planation Agriculture 3. Horticulture 4. Intensive Agriculture 136. Which two of the following extreme locations are connected by the east west corridor? 1. Mumbai and Nagpur 2. Mumbai and Kolkata 3. Silcher and Porbabdar 4. Nagpur and Siliguri 137. Which of the following ports is the deepest land – locked and well protected port along the east - cost? 1.Chennai 2. Tuticorin 3. Paradip 4. Visakhapatnam 138. Which one of the following agencies market steel for the public sector plants? 1. HAIL 2. SAIL 3. TATA STEEL 4. MNCC 139. Which of the following mineral found in monazite sands? 1.Mineral oil 2. Uranium 3. Thorium 4. Coal

- 140. Which one of the following statement is not true?
 - 1. Mica can be clear, black, green, red, yellow or brown
 - 2. Limestone is found associated with composed of calcium carbonates or calcium and magnesium carbonates.
 - 3. Aluminium has good conductivity and great malleability
 - 4. Generally minerals are not found in 'ore'
- 141. Match the following

Column-I			Column-II
1	Salt water lake in India	(i)	Barren island
2	Active volcano in India	(ii)	Pitti island
3	Island which is uninhabited	(iii)	Majuli
4	A river island situated in river Brahmaputra	(iv)	Chilka

1.
$$I - iv$$
, $2 - ii$, $3 - i$, $4 - iii$

2.
$$1 - iv$$
, $2 - i$, $3 - ii$, $4 - iii$

3.
$$1 - iii$$
, $2 - ii$, $3 - iv$, $4 - i$

4.
$$1 - ii$$
, $2 - i$, $3 - iii$, $4 - iv$

142. Himalayas have been divided on the basis of regions from west to east. Which is known as:

	Column-I	Column-II	
1	The part of Himalayas lying between Indus and Sutlaj	(i)	Kumaon Himalayas
2	The part of Himalayas lying between Sutluj and Kali	(ii)	Punjab Himalayas
3	The part lying between Tista and Dihang	(iii)	Nepal Himalayas
4	The part lying between Kali and Tista	(iv)	Assam Himalayas

1.
$$I - i$$
, $2 - ii$, $3 - iii$, $4 - vi$

$$2.1 - iv$$
, $2 - iii$, $3 - ii$, $4 - i$

$$3. 1 - ii$$
, $2 - i$, $3 - iv$, $4 - iii$

$$4.1 - iii$$
, $2 - ii$, $3 - i$, $4 - iv$

143. Match List I (River) and List 2 (Dam) and select the correct answer using the code given below:

		List –I (Rive)		List – II (Dam)
1	Mahaadi		(i)	Nagarjun
2	Krishna		(ii)	Mettur
3	Sutluj		(iii)	Hirakud
4	Kaveri		(iv)	Bhakhra Nangal
	– i, 2 – ii, 3 – i∨, 4 – iii		2. I – ii, 2 – iii, 3 – iv, 4 – i	
3. I	-iv, $2-ii$, $3-i$, $4-iii$		4. $I - iii$, $2 - i$, $3 - iv$, $4 - ii$	

144. Match the following animals with their category of existence and select the correct answer using the code given below

Animal			Ca	Category of existence	
1	Black Buck		(i)	Extinct	
2	Asiatic Elephant		(ii)	Endangered	
3	Andman wild pig		(iii)	Vulnerable	
4	Pink Head Duck		(iv)	Endemic	
1.1	– ii, 2 – iii, 3 – iv, 4 – i	2. l – i, 2	1 - ii, $3 - iii$, $4 - iv$		
3.1	– iv. 2 – iii. 3 – ii. 4 – i	4. l – iii.	2 - ii. $3 - i$. $4 - iv$		

- 3.1 10, 2 111, 3 11, 4 1
- 4.1 111, 2 11, 3 1, 4 10
- 145. Which of the following book is written by Kautilya?
 - 1. Politics

2. Civil Government

3. Arthashastra

- 4. The Prince
- 146. Which of the following state does not have coalition government?
 - 1.Bihar

2. Jammu Kashmir

3.Goa

4. Orissa

Which of the following nation has parliamentary government but is not republic? 147. 1.India 2.U.K. 3.China 4. Nepal 148. Personalities of which of the following group do not match in their positions? 1. Pt. Jawaharlal Nehru, V.P. Singh and Dr. S. Radhakrishnan 2. Dr. Rajendra Prasad, Dr. V.V. Giri and Dr. Fakhruddin Ali Ahmed 3. Lala Bahadur Shastri, Narsimha Rao and Manmohan Singh 4. Lala Lajpat Rai, Bal Gangadhar Tilak and Bipin Chandra Pal 149. Which article of Indian constitution abolishes untouchablity? 1. Art 19 2. Art 17 3. Art 21 4. Art 23 150. Which of the following statements are correct? I. India is secular III. India has adopted the proportional representation IV. India is founder member of UN 1.i. iv. iii 2. i. iv 3.i. ii. iv 4. i. ii. iii. Which article is related with uniform civil code? 151. 1. Art. 44 2. Art. 45 3. Art. 14 4. Art. 370 152. Choose the odd group from the following: 2. Weather, Climate, Environment 1. Lal, Bal, Pal 3. Heart, Kidney, Dengue 4. BJP, Congress, RJD 153. I had booked a ticket in Rajdhani Superfast train. The train was delayed for long hours without any reason. In this situation: 1. I can not approach consumer court as train delays can happen sometime 2. I can file a complaint in railway office as claim refund of ticket amount 3. I can approach consumer court for deficiency in service and claim refund of superfast charges as damage. 4. I can cancel my ticket without paying cancellation charges to railways 154. Assume that national income of a country is Rs.5,00,000 crore in any accounting year and they have received foreign aid of Rs.1,000 crore in the year. In this situation, national income of that country would: 1. Increase by Rs.1,000 crore 2. Decrerase by Rs.1,000 crore 3. Remain same 4. Increase by half of the foreign aid 155. After implementation of GST in the country, a shopkeeper has given a work of their bookkeeping/accounts, to my cousin. Such kind of activities can be included in: (A) Primary sector (B) Secondary sector (C) Tertiary sector (D) GST sector

156. Match term of Column-I with Column-II.

Column - I		Column – II	
(a)	Land	(i)	Engineer
(b)	Labour	(ii)	Mines
(c)	Capital	(iii)	Machines
(d)	Money	(iv)	Purchasing power
1 (0)	(i) (b) (ii) (a) (iii) (d) (iv) 2 (~/ (;;/	(b) (i) (a) (iii) (d) (iv)

- 1. (a)- (i), (b)-(ii), (c)-(iii), (d)-(iv)
- 2. (a)-(ii), (b)-(i), (c)-(iii), (d)-(iv)
- 3. (a)-(iv), (b)-(ii), (c)-(i), (d)-(iii)
- 4. (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii)
- 157. Why despite less calories requirement urban areas have a higher poverty line?
 - 1. because of higher prices of many essential commodities in urban areas
 - 2. urban people eat more in hotels
 - 3. causes of poverty are different in urban areas
 - 4. urban people incur more medical expenses
- 158. If farmer works at his field of 5 acre and produces total 150 quintals of wheat in a year. His son grown up and joined the farming with his father. Which of the following shows the disguised unemployment, if:
 - 1. production of wheat increase by 50 quintals
 - 2. production of wheat remain constant
 - 3. production of wheat increase by 20 quintals
 - 4. production of wheat increase by 100 quintals
- 159. Which one of the following statement is incorrect regarding commercial banking?
 - 1. It deals with money. It accepts deposits and advance loans.
 - 2. It deals with credit and has power to create credit.
 - 3. It deals with the general public
 - 4. It is not a commercial institutions whose aim is to earn profit
- 160. Human Development Index compares countries based on which of the following levels of the people?

(i) Education level

(ii) Pollution level

(iii) Health Status

(iv) Buildings

(v) Per capita income

2. (i), (iii), (v)

1. (i), (ii), (iii) 3. (ii), (iv), (v)

4. (i), (ii), (v)

- 161. Which has more number of particles?
 - 1.16 g of Na atom

2.8 g of O₂ molecules

3.0.1 mole of carbon atom

4.28 g of N₂ molecules

- 162. Choose the correct option about cheese:
 - 1. Cheese is an example of emulsion in which dispersed phase is a liquid and dispersing medium is solid.
 - 2. Example of gel in which dispersed phase is solid and dispersing medium is liquid.
 - 3. Example of emulsion in which dispersed phase is solid and dispersing medium is liquid.
 - 4. Example of gel in which dispersed phase is liquid and dispersing medium is solid.
- 163. If the aluminium salt of anion 'X' is Al₂X₃ the formula of magnesium salt of 'X' will be:

1. Mg₂X

2. MgX₂

3. MgX

4. Mg₂X₃

164. On reacting a compound of calcium (x) with water compound (y) is obtained. (y) on boiling with NH₄Cl a gas (z) is obtained. x, y & z respectively are:

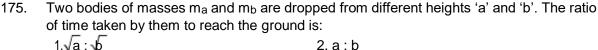
1. CaCO₃, CaO, NH₃

2. CaCO₃, CaO, Cl₂

3. CaO, CaCl₂, Cl₂

4. CaO, Ca(OH)₂, NH₃

165.	•	. The extraction of metal is done by reacting o join cracks of machine parts and rail lines by		
	1. Zn 3. Fe	2.Cu 4.Mg		
166.	A colourless gas with choking smell is evolved when Cu turning are heated with Conc. H ₂ SO ₄ . The gas is:			
	1. SO ₂	2. SO ₃		
	3. H ₂ S	4. S		
167.	Acetic acid is reduced with LiAlH ₄ to give:			
	1. CH₃CH₂OH 3. CH₃OH	2. CH ₃ CHO 4. CH ₃ CH ₃		
168.	Read the statements about carbon and choose correct option: (a) It has small atomic size			
	(b) Its melting & boiling point is low as compared to other members of group(c) It shows electropositive character(d) It shows maximum tendency of catenation			
	1. a, b are correct	2. b, d are correct		
	3. a, c and d are correct	4. a & d are correct		
169.	1.Fe	n eighth group of Mendeleev periodic table? 2. Na		
	3.Pt	4. Ni		
170.	Baking powder is a mixture of: 1. Sodium carbonate & sodium hydrogen carbonate 2. Sodium carbonate & acetic acid 3. Sodium hydrogen carbonate & methanoic acid 4. Sodium hydrogen carbonate & terteric acid			
171.	Which of the following elements from acidic			
	1.Element with atomic no. 7 3.Element with atomic no. 15	2. Element with atomic no. 34. Element with atomic no. 19		
172.	KMnO ₄ is a strong oxidizing agent in acidic medium. To provide acidic medium H ₂ SO ₄ is used instead of HCl because:			
	1. H ₂ SO ₄ is stronger acid than HCl	2.H ₂ SO ₄ is a dibasic acid		
	3. HCl is oxidized by KMnO ₄ to Cl ₂	4. Only H ₂ SO ₄ is completely ionized		
173.	Examine these two statements carefully	peled as Assertion (A) and other as Reason (R), and decide if Assertion (A) and Reason (R) explanation of (A) select your answer using the		
	Assertion (A): CO ₂ is a gas but SiO ₂ is a solid at room temperature. Reason (R): CO ₂ contain C = O bonds but SiO ₂ does not contain Si = O bonds. 1. Both A & R are true and R is a correct explanation of A 2. Both A & R are true but R is not correct explanation of A 3. A is true R is false 4. A is false R is true			
174.	Trippling the speed of a motor car multiplies the distance needed for stopping it by: 1. 3 2.6			
	3. 9	4.12		



4. m_a : m_b

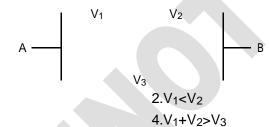
176. A person throws ball with a velocity 'v' from top of a building in vertically upward direction. The ball reaches the ground with a speed of '3v'. The height of the building is:

$$1.\frac{4v^2}{g}$$
$$3.\frac{6v^2}{g}$$

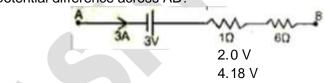
$$\frac{9v^2}{g}$$

- 177. A bottle full of water containing an air bubble is rotated in horizontal circle by a string tied to the neck of the bottle. Then air bubble will:
 - 1. be collected at bottom

- 2. remain unaffected
- 3. be collected at the wall of bottle
- 4. be collected at the neck
- 178. Three voltmeters all having different resistances are joined as shown. When some potential difference is applied across A and B, then readings in voltmeter are V₁, V₂ and V₃:



179. What is potential difference across AB?



180. Three equal resistors connected in series across a source of emf dissipate 10 watt. If the same resistors are connected in parallel across the same emf, the power dissipated will be:

1. 10 watt

 $1.V_1 = V_2$

1.24 V

3.6 V

 $3.V_1+V_2=V_3$

2. 30 watt

3. <u>10</u> watt

4. 90 watt

181. A long wire carries a steady current. It is then bent into a circle of one turn and magnetic field at the centre of coil is B. Then it is bent into n-turns. Magnetic field at centre of coil will be:

1. 2n[∠]B

2. 2nB

3. n²B

4. nB

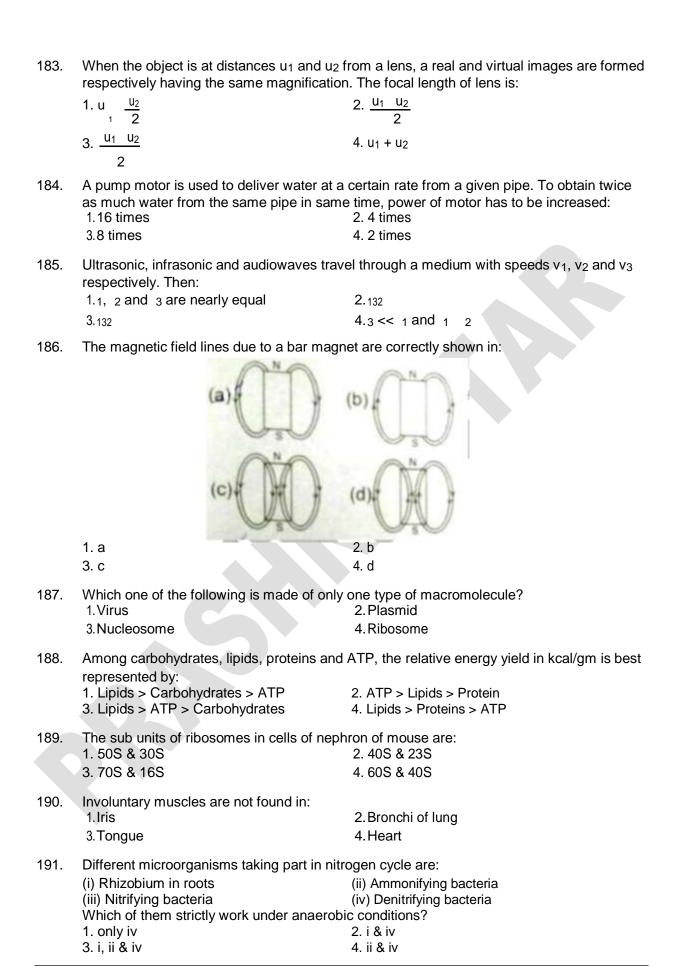
182. If 'p' and 'q' are distance of object and image from principal focus of a concave mirror then what is the relation between 'p', 'q' and 'f'?

1. pq f√

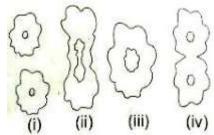
2. pq = f

3. $pq = f^2$

4. pq $\frac{1}{1}$



192. The following pictures were drawn by a student to show different stages of binary fission:



The correct sequence of these figures is:

1. iii, ii, iv, i
2. iii, iv, ii, i
3. ii, iii, iv, i
4. iv, iii, ii, i

193. Which of the following is not strictly considered as a part of neuron?

1. Dendrite 2. Myelin sheath 3. Axon 4. Cell body

- 194. Which of the following statement about autotrophs is incorrect?
 - 1. They synthesize carbohydrates from carbon dioxide and water.
 - 2. they store carbohydrate in the form of starch.
 - 3. They convert water & CO₂ into carbohydrate only in the absence of light.
 - 4. They constitute first trophic level in the food chain.
- 195. Correct pathway of blood in circulatory system is:
 - 1. atria ventricles artery veins 2. ventricles atria veins arteries
 - 3. ventricles veins atria arteries 4. atria arteries ventricles veins
- 196. Which of the following is essential for formation of thyroxine hormone in the thyroid gland?

1. Sodium 2. Chloride 3. Potassium 4. Iodine

197. In a given food chain if frog has 100 J of energy then the energy available with plants and snake respectively will be:

Plants Insect Frog Snake

1. 1000 J and 10 J 2. 10000 J and 10 J 3. 10 J and 1000 J 4. 1000 J and 100 J

- 198. Characters that are transmitted from parents to offspring during reproduction show:
 - 1. Only similarities with parents
 - 2. Only variations with parents
 - 3. Both similarities and variation with parents
 - 4. Neither similarities nor variations with parents
- 199. Rajiv was absent in class due to muscle pain which he claims was due to excess of physical exercise he has done yesterday. The pain is due to:

1. Formation of Pyruvic Acid 2. Formation of Acetic Acid

3. Formation of Lactic Acid 4. Formation of Hydrochloric Acid

200. Which of the following constitutes a good food chain?

1. Grass, Wheat, Mango 2. Grass, Goat, Lion 3. Goat, Cow, Elephant 4. Grass, Fish, Goat