

Direction: (Q.10 to Q.12): are based on following information.

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 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 | 2. R |
| 3. S | 4. T |
11. How is 'T' related to 'Q'?
- | | |
|-----------|------------|
| 1. Father | 2. Brother |
| 3. Son | 4. Uncle |
12. Who is the wife of 'T'?
- | | |
|------|------|
| 1. R | 2. V |
| 3. S | 4. P |
13. From the given alternative words, select the word which cannot be formed using the letter of the given word:
- COMMISSIONER
- | | |
|------------|------------|
| 1. COMMON | 2. MISSION |
| 3. MISSILE | 3. SIREN |
14. Select the correct combination of numbers so that letters arranged accordingly will form a meaningful word.
- NSGREI
5 4 3 2 1 0
- | | |
|----------------|----------------|
| 1. 0 2 5 3 1 4 | 2. 3 1 5 4 0 2 |
| 3. 5 0 4 2 3 1 | 4. 4 0 5 3 1 2 |
15. In a certain code language, DIAMOND is written as EMPLBHE. How will ROUTINE be written in that code language?
- | | |
|------------|------------|
| 1. FMJSVNS | 2. FOJUVPS |
| 3. FMJVSSN | 4. SNVSJMF |
16. In certain code language GUIDE is written as $\triangle \ominus \blacksquare * \blacksquare$ and MARCH is written as @ + \$ \nabla \% . How will DIAGRAM be written in same code language?
- | | |
|--------------------------------------|--------------------------------------|
| 1. * \blacksquare + \nabla \$ + @ | 2. * \blacksquare + \$ + \triangle @ |
| 3. * \blacksquare + \triangle \$ + @ | 4. * \blacksquare + \$ + @ \nabla |
17. If MY = 16, SUN = 27 then HOTEL will be equal to:
- | | |
|-------|-------|
| 1. 60 | 2. 75 |
| 3. 77 | 4. 80 |
18. If 'water' is called 'air', 'air' is called 'tree', 'tree' is called 'sky', 'sky' is called 'sea' and 'sea' is called 'fire', where do aeroplanes fly?
- | | |
|----------|--------|
| 1. water | 2. sky |
| 3. fire | 4. sea |
19. How many '8's, are there followed by an even number and preceded by an odd number in the given number sequence?
- 5 8 4 7 8 3 2 8 5 4 8 2 9 8 6 8 5 4 8 7 8 4 2 8 6 4 5 8 4 9
- | | |
|------|------|
| 1. 2 | 2. 3 |
| 3. 4 | 4. 5 |

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.

Conclusions:

I. Some fruits are flowers.
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?

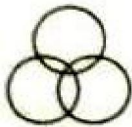
1.



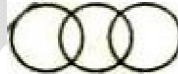
2.



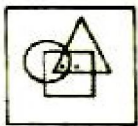
3.



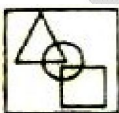
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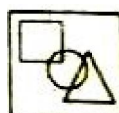
31. There are two dots placed in the question figure. Find out the answer figure which has the possibility of placing the dots satisfying the same conditions as in the question figure?



1.



2.



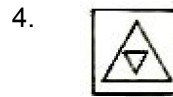
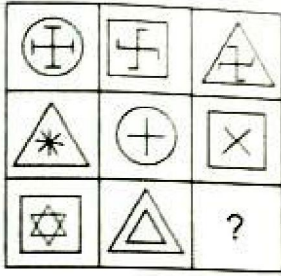
3.



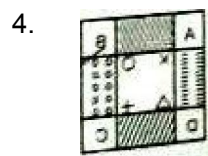
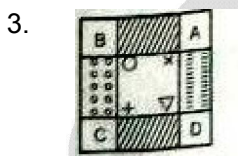
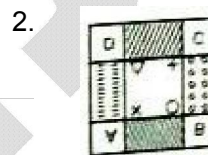
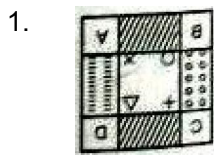
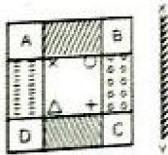
4.



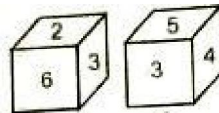
32. Select a suitable figure from the four alternatives that would complete the given matrix.



33. If a mirror is placed on the line X Y, then which of the answer figures is the correct image of the given question figure?



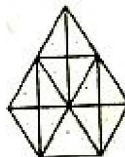
34. Two positions of a dice are shown below. When number 1 is on the top, what number will be at the bottom?



1. 2
3. 5

2. 3
4. 6

35. How many triangles are there in the following figure?



1. 20
3. 32

2. 25
4. 34

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.

36. CEHL : PLIG :: LNQU : ?

1. PYUR
3. YURP

2. YUPR
4. YPUR

37. FEAL : LEAF :: EAKT : ?

1. KATE
3. KETA

2. TAKE
4. ETAK

38. 63 : 9 :: ? : 14

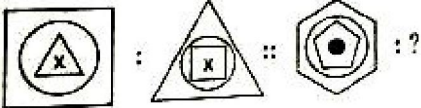
1. 43
3. 86



2. 54
4. 96



39. 5 : 64 :: 11 : ?

1. 121
3. 144

2. 124
4. 196

40. 

1. 
3. 

2. 
4. 

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, DW EV, FUGT, ?

1. JS HR
3. HSRJ

2. HRJS
4. HSIR

43. 6, 11, 26, 71, 206, ?

1. 244
3. 611

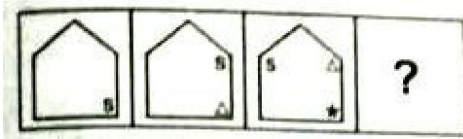
2. 496
4. 632

44. 81, 192, 375, ?, 1029

1. 686
3. 484

2. 648
4. 468

45.



1.



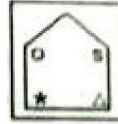
2.



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

2. 4, 3, 1, 2, 5

3. 4, 3, 1, 5, 2

4. 4, 5, 1, 3, 2

47. Which one number is wrong in the number series?

13, 17, 19, 23, 27, 29

1. 29

2. 27

3. 23

4. 19

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

2. Madhvi

3. Priya

4. Satish

49. Who is between Gyan and Madhvi?

1. Rajesh

2. Satish

3. Vinod

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

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
2. am born
3. bore
4. was born
70. Five hundred new houses _____ by the end of next year.
1. were built
2. were being built
3. will be built
4. will build

Direction: (Q 71 to 80) In the following passage there are some numbered blanks. Fill in the blanks by selecting the most appropriate word for each blank from the given options.

An important task (71) _____ the youth can successfully undertake is to eliminate the curse of dowry. Dowry is responsible for a large number of deaths of innocent married girls and harassment (72) _____ the parents of the marriageable daughters. The birth of (73) _____ daughter in Indian society is an unwelcome event. It generates gloom and despair. (74) _____ the parents simply because of the large dowry which will be required for marrying the girl. The youth (75) _____ boys and girls, can take a pledge (76) _____ force their parents to stop this undesirable practice. This problem directly concerns the youth (77) _____. Therefore they can easily fight it and (78) _____ lives from being lost. The youth in the cities can get in touch with the youth in the rural areas (79) _____ educate them with a view of creating a mass movement for the abolition of dowry. Where legal sanctions against dowry (80) _____ this social movement by the youth will prove effective.

71. 1. this
2. that
3. who
4. what
72. 1. to
2. by
3. for
4. of
73. 1. any
2. the
3. a
4. each
74. 1. with
2. to
3. among
4. for
75. 1. every
2. both
3. all
4. no
76. 1. will
2. can
3. might
4. ought
77. 1. themselves
2. himself
3. herself
4. itself
78. 1. can save
2. saved
3. save
4. saves
79. 1. yet
2. and
3. although
4. but
80. 1. will nearly fail
2. had nearly failed
3. nearly failed
4. have nearly failed

Direction: (Q 81 to 85) Read the following passage carefully and answer the questions 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 and 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
93. Fashionable suntan may _____.
1. make you look dark
2. 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 means _____.
1. to become healthy
2. to become worse
3. to become strong
4. to become healthy and strong

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

Choose the right order in which the three sentences (PQR) should appear to complete the paragraph.

96. S1. The proverb goes, "If speech silver, silence is golden".
S2. _____
S3. _____
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:

- | | |
|--------|--------|
| 1. PRQ | 2. RPQ |
| 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
100. Chalk and cheese
(1) all white
(2) different from each other
(3) similar to each other
(4) write and eat

116. The sides of triangle are 61 cm, 54 cm and 35 cm respectively. The length of its longest altitude is:
1. $10\sqrt{5}$ cm
 2. $16\sqrt{5}$ cm
 3. $24\sqrt{5}$ cm
 4. $28\sqrt{5}$ cm
117. A bag contains two coins. One of them is a regular coin whereas the other has tails on both sides. From this bag, a coin is picked at random and tossed. Then, the probability of getting a head is:
1. 0
 2. $\frac{1}{4}$
 3. $\frac{1}{2}$
 4. $\frac{3}{4}$
118. a and b are roots of a quadratic equation $x^2 + 5x + d = 0$, while a and c are the roots of the quadratic equation $x^2 + 6x + 2d = 0$. If there is 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 observation 7, 7, 5, 7 and x are the same. Then the observation x is:
1. 10
 2. 9
 3. 8
 4. 7
120. ABC is a right angled triangle, right angled at 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. $\frac{3}{1}$
 2. $\frac{5}{2}$
 3. $\frac{9}{4}$
 4. $\frac{2}{1}$
121. Non co – operation movement was withdrawn 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 'Latin' word 'Liber' meaning:
1. Democratic
 2. Capitalist
 3. Socialist
 4. Free
123. The French Revolution occurred in which following year?
1. 1788
 2. 1789
 3. 1790
 4. 1791
124. Who was the chief architect of the unification of Germany?
1. Chief Minister William – I
 2. King William – II
 3. Chief Minister Ottovon Bismarck
 4. King Kaiser
125. Who among the following was described as the most dangerous enemy of social order by Duke Metternich?
1. Louis Philippe
 2. Karol Kurpinski
 3. Johan Gottfried
 4. Guiseppe Mazzini

126. The elites in Vietnam were powerfully influenced by which following culture?
 1. Indian
 2. American
 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
131. Who is the writer of 'Vande Mataram' ?
 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
134. In which of the following state is laterite soil found?
 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 – coast?
 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. I – iv, 2 – i, 3 – ii, 4 – iii
3. I – iii, 2 – ii, 3 – iv, 4 – i
4. I – 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. I – iv, 2 – iii, 3 – ii, 4 – i
3. I – ii, 2 – i, 3 – iv, 4 – iii
4. I – 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

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

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

147. Which of the following nation has parliamentary government but is not republic?
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 untouchability ?
1. Art 19
2. Art 17
3. Art 21
4. Art 23
150. Which of the following statements are correct?
I. India is secular
II. India has direct democracy
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
151. Which article is related with uniform civil code?
1. Art. 44
2. Art. 45
3. Art. 14
4. Art. 370
152. Choose the odd group from the following:
1. Lal, Bal, Pal
2. Weather, Climate, Environment
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. Decrease 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 book-keeping/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. (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 | |
1. (i), (ii), (iii)
 2. (i), (iii), (v)
 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. A metal x is placed below Al and above Pb. The extraction of metal is done by reacting carbon with its oxide. Metal oxide is used to join cracks of machine parts and rail lines by reacting it with Al. The metal is:
- | | |
|-------|-------|
| 1. Zn | 2. Cu |
| 3. Fe | 4. Mg |
166. A colourless gas with choking smell is evolved when Cu turning are heated with Conc. H_2SO_4 . The gas is:
- | | |
|-----------|-----------|
| 1. SO_2 | 2. SO_3 |
| 3. H_2S | 4. S |
167. Acetic acid is reduced with $LiAlH_4$ to give:
- | | |
|-----------------|---------------|
| 1. CH_3CH_2OH | 2. CH_3CHO |
| 3. CH_3OH | 4. CH_3CH_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. Which of the following metal is not placed in eighth group of Mendeleev periodic table?
- | | |
|-------|-------|
| 1. Fe | 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 oxide?
- | | |
|-------------------------------|-------------------------------|
| 1. Element with atomic no. 7 | 2. Element with atomic no. 3 |
| 3. Element with atomic no. 15 | 4. Element with atomic no. 19 |
172. $KMnO_4$ is a strong oxidizing agent in acidic medium. To provide acidic medium H_2SO_4 is used instead of HCl because:
- | | |
|------------------------------------------|-----------------------------------------|
| 1. H_2SO_4 is stronger acid than HCl | 2. H_2SO_4 is a dibasic acid |
| 3. HCl is oxidized by $KMnO_4$ to Cl_2 | 4. Only H_2SO_4 is completely ionized |
173. Consider the two statements below one labeled as Assertion (A) and other as Reason (R). Examine these two statements carefully and decide if Assertion (A) and Reason (R) individually true and if so (R) is a correct explanation of(A) select your answer using the code given below:
- 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. Tripling the speed of a motor car multiplies the distance needed for stopping it by:
- | | |
|------|-------|
| 1. 3 | 2. 6 |
| 3. 9 | 4. 12 |

175. Two bodies of masses m_a and m_b are dropped from different heights 'a' and 'b'. The ratio of time taken by them to reach the ground is:

1. $\sqrt{a} : \sqrt{b}$
2. $a : b$
3. $\frac{1}{a} : \frac{1}{b}$
4. $m_a : m_b$

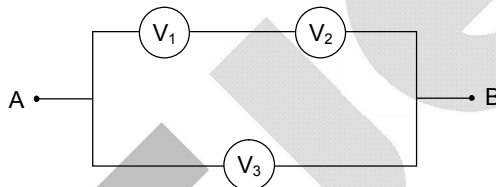
176. A person throws ball with a velocity 'v' from top of a building in vertically upward direction. The ball reaches the ground with a speed of '3v'. The height of the building is:

1. $\frac{4v^2}{g}$
2. $\frac{3v^2}{g}$
3. $\frac{6v^2}{g}$
4. $\frac{9v^2}{g}$

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:

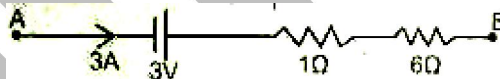
1. be collected at bottom
2. remain unaffected
3. be collected at the wall of bottle
4. be collected at the neck

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 V_1 , V_2 and V_3 :



1. $V_1 = V_2$
2. $V_1 < V_2$
3. $V_1 + V_2 = V_3$
4. $V_1 + V_2 > V_3$

179. What is potential difference across AB?



1. 24 V
2. 0 V
3. 6 V
4. 18 V

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
2. 30 watt
3. $\frac{10}{3}$ 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. $2n^2B$
2. $2nB$
3. n^2B
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. $pq = \sqrt{f}$
2. $pq = f$
3. $pq = f^2$
4. $pq = \frac{1}{f}$

183. When the object is at distances u_1 and u_2 from a lens, a real and virtual images are formed respectively having the same magnification. The focal length of lens is:

- | | |
|--------------------------|--------------------------|
| 1. $u_1 + \frac{u_2}{2}$ | 2. $\frac{u_1 - u_2}{2}$ |
| 3. $\frac{u_1 + u_2}{2}$ | 4. $u_1 + u_2$ |

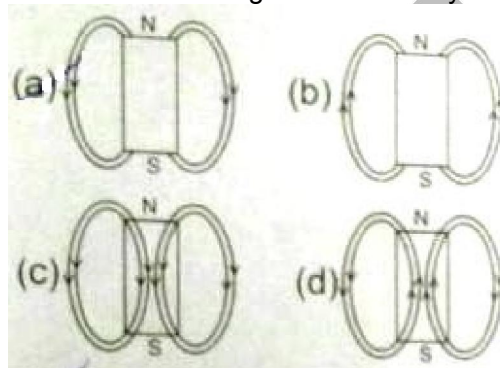
184. A pump motor is used to deliver water at a certain rate from a given pipe. To obtain twice as much water from the same pipe in same time, power of motor has to be increased:

- | | |
|-------------|------------|
| 1. 16 times | 2. 4 times |
| 3. 8 times | 4. 2 times |

185. Ultrasonic, infrasonic and audiowaves travel through a medium with speeds v_1 , v_2 and v_3 respectively. Then:

- | | |
|------------------------------------------|----------------------------------|
| 1. v_1, v_2 and v_3 are nearly equal | 2. $v_1 \geq v_3 \geq v_2$ |
| 3. $v_1 \leq v_3 \leq v_2$ | 4. $v_3 \ll v_1$ and $v_1 = v_2$ |

186. The magnetic field lines due to a bar magnet are correctly shown in:



- | | |
|------|------|
| 1. a | 2. b |
| 3. c | 4. d |

187. Which one of the following is made of only one type of macromolecule?

- | | |
|---------------|-------------|
| 1. Virus | 2. Plasmid |
| 3. Nucleosome | 4. Ribosome |

188. Among carbohydrates, lipids, proteins and ATP, the relative energy yield in kcal/gm is best represented by:

- | | |
|---------------------------------|----------------------------|
| 1. Lipids > Carbohydrates > ATP | 2. ATP > Lipids > Protein |
| 3. Lipids > ATP > Carbohydrates | 4. Lipids > Proteins > ATP |

189. The sub units of ribosomes in cells of nephron of mouse are:

- | | |
|--------------|--------------|
| 1. 50S & 30S | 2. 40S & 23S |
| 3. 70S & 16S | 4. 60S & 40S |

190. Involuntary muscles are not found in:

- | | |
|-----------|--------------------|
| 1. Iris | 2. Bronchi of lung |
| 3. Tongue | 4. Heart |

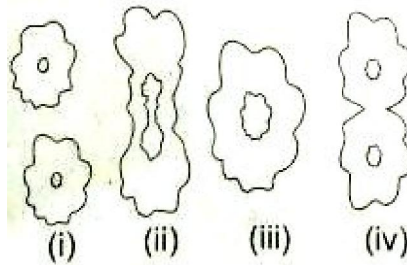
191. Different microorganisms taking part in nitrogen cycle are:

- | | |
|---------------------------|----------------------------|
| (i) Rhizobium in roots | (ii) Ammonifying bacteria |
| (iii) Nitrifying bacteria | (iv) Denitrifying bacteria |

Which of them strictly work under anaerobic conditions?

- | | |
|---------------|------------|
| 1. only iv | 2. i & iv |
| 3. i, ii & iv | 4. ii & iv |

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 |