

1. A food chain consists of:

- ☒ a. Producers, consumers, decomposers
- b. Producers, carnivores, decomposers
- c. Primary producers, herbivores, carnivores
- d. Producers, primary consumers, carnivores

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2. As climate change continues, we expect that the countries with the:

- a. largest coastlines will experience the greatest impacts.
- b. greatest resources will experience the greatest impacts.
- c. fewest resources will experience the greatest impacts.
- d. fewest resources will experience the lowest impacts.

3. Biochemical Oxygen Demand (BOD) determines the health of:

- |   |                     |
|---|---------------------|
| a. Air                                      | b. Water            |
| <input checked="" type="checkbox"/> c. Soil | d. All of the above |

4. Burning fossil fuels in a low oxygen environment will most likely produce:

- |  |                |
|--|----------------|
| <input checked="" type="checkbox"/> a. carbon monoxide | b. hydrogen    |
| c. sulphuric acid                                      | d. radon gases |

5. Ecotone

- a. contain only species found in the bordering ecosystems.
- b. have the same abiotics characteristics as the bordering ecosystems.
- c. consist of two or more landscapes.
- d. are transitional regions between ecosystems.

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6. Globalization has helped to address which of the following problems?

- a. the dispersion of exotic species to new locations in the world
- b. the spread of infectious organisms
- c. the challenges of producing enough food for the people of the world
- ☒ d. global climate change

7. If people do not easily spread bird flu from person to person, how can bird flu virus spread in the world?

- a. vaccines against bird flu might spread the disease all over the world
- b. antibiotics against bird flu will stop working
- ☒ c. migrating birds might spread the flu widely
- d. hunters shooting the birds and eating the meat might be affected

8. Lakes that suffer from environmental acidification typically have:
- a. fewer animals and higher levels of heavy metals.
  - b. more animals and lower levels of heavy metals.
  - ~~c.~~ more plants ,fewer animals ,and slightly higher levels of heavy metals.
  - d. fewer plants ,more animals, and slightly lower levels of heavy metals

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9. Many people in the developing world who depend on rice in their diet suffer from diseases related to deficiencies of:
- a. calories and vitamin D
  - b. calories and fiber
  - ~~c.~~ vitamin A and iron
  - d. vitamins C and E
10. Most of the water on Earth is found in:
- a. lakes and rivers.
  - b. polar ice caps.
  - c. glaciers.
  - ~~d.~~ oceans
11. Premature aging of the skin and cataracts are on the increase due to increase:
- a. levels of sulfur dioxide in the atmosphere .
  - b. levels of carbon monoxide in the atmosphere.
  - ~~c.~~ exposure to ultraviolet light.
  - d. exposure to infrared radiation from the sun.

12. Risk of environmental health is most related to:

- a. hazards.
- b. vulnerability.
- c. hazards multiply by vulnerability
- d. hazards or vulnerability

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13. The entire biosphere is distributed into following number of biogeographic regions:

- |         |           |
|---------|-----------|
| a. Six  | b. Eight  |
| c. Nine | d. Twelve |

14. The greatest number of known or expected species are types of:

- |            |            |
|------------|------------|
| a. animals | b. plants  |
| c. fungi   | d. mammals |

15. Which of the following is not influenced by human activities?

- a. Depletion of ground water
- b. Destruction of mangroves and wetlands
- c. Increased extinction rate of species
- d. None of the above

16. The atmosphere extends upto a height of about 10,000 km. It is divided into the following four thermal layers

- |                 |                 |
|-----------------|-----------------|
| a. Mesosphere   | b. Stratosphere |
| c. Thermosphere | d. Troposphere  |

The correct sequence of these layers starting from the surface of the Earth upwards is:

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

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17. Which of the following is an example of impact of development activities on the Hydrosphere?

- |                  |                    |
|------------------|--------------------|
| a. Air pollution | b. Soil pollution  |
| c. Soil erosion  | d. Water pollution |

18. Driving force in an ecosystem is

- |                 |                   |
|-----------------|-------------------|
| a. Plants       | b. Producers      |
| c. Solar energy | d. Biomass energy |

19. A trophic level refers to:

- a. Area in the tropics
- ~~b. An organism's portion in a food chain~~
- c. An organism's position in an ecosystem
- d. An organism's position in a biome



20. Tendency of pollutants to become concentrated in successive trophic levels is known as:

- |                      |              |
|----------------------|--------------|
| a. Biomagnifications | b. Biorhythm |
| c. Bioremediation    | d. Biopiracy |

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21. The Nagzira Wildlife Sanctuary (NWS) is located in which state?

- |                    |                     |
|--------------------|---------------------|
| a. Maharashtra     | b. Himachal Pradesh |
| c. Jammu & Kashmir | d. Nagaland         |

22. The "Hkakabo Razi" which is famous for Hkakabo Razi National Park, is a border tripoint between which among the following countries?

- a. India-Nepal-China
- b. India-Bhutan-China
- c. India-Bangladesh-Myanmar
- d. India-China-Myanmar

23. In the UNFCCC convention at which among the following places, the decision to set up a "Green Climate Fund" was taken?

- |               |           |
|---------------|-----------|
| a. Copenhagen | b. Cancun |
| c. Bali       | d. Paris  |

24. In the E-waste generated by the Mobile Phones, which among the following metal is most abundant?

- |              |           |
|--------------|-----------|
| a. Copper    | b. Silver |
| c. Palladium | d. Gold   |

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25. Which among the following chronic lung disease commonly known as 'black lung' disease, leads to reduced life expectancy in coal-miners?

- |                   |                                 |
|-------------------|---------------------------------|
| a. Pneumoconiosis | b. Progressive Massive Fibrosis |
| c. Mesothelioma   | d. Collier's Asthma             |

26. Which of the following will rise with rising meat production and consumption?

1. Water footprint
2. Phosphorous footprint
3. Carbon foot print

Select the correct option from the codes given below:

- |           |               |
|-----------|---------------|
| a. Only 1 | b. Only 1 & 3 |
| c. Only 2 | d. 1, 2 & 3   |

27. If we completely remove the decomposers, from an ecosystem, its functioning will be adversely affected, because:

- a. energy flow will be blocked
- b. mineral movement will be blocked
- c. herbivores will not receive solar energy
- d. rate of decomposition will be very high

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28. In recent years, many countries have decided to ban phosphates use in detergents.

Which of the following may be the reason(s) for the same?

- 1. Phosphates use causes eutrophication of waters
- 2. Phosphates lead to Biomagnifications
- 3. Phosphates causes destruction of the stratospheric ozone
- 4. Phosphates lead to formation of ground level ozone

Select the correct option from the codes given below:

- |                  |                |
|------------------|----------------|
| a. Only 1        | b. Only 1 & 2  |
| c. Only 1, 2 & 3 | d. 1, 2, 3 & 4 |

29. The term "Facultative Lagoon", sometimes seen in news, is most closely associated with?

- |                            |                           |
|----------------------------|---------------------------|
| a. Protection of Mangroves | b. Wastewater Treatment   |
| c. Environmental Studies   | d. Socio-Economic Studies |



30. In context of 'Kyoto protocol', which of the following gas (es) is/are characterized as principal greenhouse gas (es)?

1. Carbondioxide ( $\text{CO}_2$ )
2. CarbonMonoxide (CO)
3. Ozone ( $\text{O}_3$ )
4. Hydrofluorocarbons (HFCs)
5. Perfluorocarbons (PFCs)
6. Sulphurhexafluoride ( $\text{SF}_6$ )

Select the correct option from codes given below:

- |                       |                             |
|-----------------------|-----------------------------|
| a. 1, 2, 3 and 6 Only | b. 1, 4, 5 and 6 Only       |
| c. 1, 2, 4 and 6 Only | d. 1, 2, 3, 4, 5 and 6 Only |

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31. Which of the following is I are consequences of deforestation?

1. Reduction in atmospheric moisture
2. Increase in emission of carbon dioxide
3. Increase in thickness of ice sheets on earth
4. Slope stabilization

Select the correct option from the codes give below:

- |                  |                |
|------------------|----------------|
| a. 1 Only        | b. 1 & 2 Only  |
| c. 1, 2 & 4 Only | d. 1, 2, 3 & 4 |

32. There is a Carbon Footprint if a process releases:

1. Carbon dioxide (CO<sub>2</sub>)
2. Methane (CH<sub>4</sub>)
3. Nitrous oxide (N<sub>2</sub>O)
4. Hydro fluorocarbons (HFCs)

Select the correct option from the codes given below:

- |             |                |
|-------------|----------------|
| a. Only 1   | b. Only 1 & 2  |
| c. 1, 2 & 4 | d. 1, 2, 3 & 4 |

33. The Stockholm Convention is a globally treat focuses to eliminate\_\_\_\_\_?

- a. Polyethylene products
- b. Greenhouse Gases
- c. Persistent Organic Pollutants
- d. Chemical Fertilizers

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34. Which of the following islands has/have been declared as "Hope Spots" by the IUCN (International Union for Conservation of Nature)?

1. Andaman & Nicobar Islands
2. Lakshadweep Islands
3. Majuli Island

Select the correct option from codes given below:

- |               |             |
|---------------|-------------|
| a. 1 & 2 Only | b. 3 Only   |
| c. 1 & 3 Only | d. 1, 2 & 3 |

35. Which of the following substances is not considered as toxic pollutant of water?
- |  |            |
|--|------------|
| a. Carbonic acid                               | b. Lead    |
| <input checked="" type="checkbox"/> c. Mercury | d. Cadmium |

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36. A train, 150m long, takes 30 seconds to cross a bridge 500m long. How much time will the train take to cross a platform 370m long?
- |            |            |
|------------|------------|
| a. 36 secs | b. 24 secs |
| c. 30 secs | d. 18 secs |
37. A swimmer swims a distance of 36km in 6 hours downstream and a distance of 40 km upstream in 8 hours. What is his speed in still water?
- |  |            |
|--|------------|
| <input checked="" type="checkbox"/> a. 5.5 km/hr | b. 6 km/hr |
| c. 7 km/hr                                       | d. 11km/hr |
38. Two persons A and B walk from P to Q, which are at a distance of 21km, at 3km/hr and 4km/hr respectively; B reaches Q returns immediately and meets A to R. Find the distance from P to R.
- |          |          |
|----------|----------|
| a. 12km  | b. 16 km |
| c. 28 km | d. 18 km |

39. Two numbers are in the ratio 4:5 respectively. If each number is reduced by 25, then the ratio becomes 3:4. Find the 2nd numbers.

- |        |        |
|--------|--------|
| a. 120 | b. 125 |
| c. 130 | d. 135 |

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40. 10 years ago, ratio of the ages of A and B was 3: 1 and after 10 years, the ratio of their ages will become 2: 1. Find the sum of their present ages.

- |        |        |
|--------|--------|
| a. 100 | b. 120 |
| c. 140 | d. 160 |

41. The average age of 30 students is 19 years. If the age of their teacher is included, the average age of their teacher is included, The average age becomes 10 years. The age of the teacher is (in years) is

- |           |           |
|-----------|-----------|
| a. 34 yrs | b. 36 yrs |
| c. 38 yrs | d. 40 yrs |

42. A merchant borrowed Rs 2500 from two money lenders. For one loan he paid 12% p.a. and for the other 14% p.a. The total interest paid for one year was Rs 326. How much did he borrow at each rate?

- |         |         |
|---------|---------|
| a. 1200 | b. 1300 |
| c. 1400 | d. 1500 |

43. The cost of an article was Rs 75. The cost was first increased by 20% and later on it was reduced by 20%. The present cost of the article is

- |          |          |
|----------|----------|
| a. Rs 72 | b. Rs 60 |
| c. Rs 75 | d. Rs 90 |

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44. On a test consisting of 250 questions, Jassi answered 40% of the first 125 questions correctly. What percent of the other 125 questions does she need to answer correctly for her grade on the entire exam to be 60%?

- |       |                  |
|-------|------------------|
| a. 75 | b. 80            |
| c. 60 | d. None of these |

45. If Ravi's salary is 25% more than Raju's salary, then percentage by which Raju's salary is less than Ravi's salary is

- |       |       |
|-------|-------|
| a. 15 | b. 20 |
| c. 25 | d. 32 |

46. A sum of money, at simple, triples itself in 15 years. It will become 5 times of itself in

- |             |             |
|-------------|-------------|
| a. 40 years | b. 36 years |
| c. 30 years | d. 25 years |



47. Two equal amounts of money are deposited in two banks each at 15% per annum for 3.5 yrs and 5 yrs respectively. If the difference between their interests is Rs 144, find each sum

- |           |           |
|-----------|-----------|
| a. Rs 640 | b. Rs 680 |
| c. Rs 720 | d. Rs 740 |

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48. A lent Rs 600 to B for 2 years and Rs150 to C for 4 years and received altogether from both Rs 90 as simple interest. The rate of interest is

- |       |       |
|-------|-------|
| a. 3% | b. 4% |
| c. 5% | d. 6% |

49. A sum of money fetches Rs408 as compound interest at the rate of 4% p.a. at the end of two years. What is the sum?

- |            |                  |
|------------|------------------|
| a. Rs 6000 | b. Rs 5000       |
| c. Rs 4000 | d. None of these |

50. Find the average of first 20 multiples of 3?

- |         |         |
|---------|---------|
| a. 30.5 | b. 31.5 |
| c. 40.3 | d. 20.5 |

51. The average temperature from Monday to Thursday is  $37^{\circ}$  Celsius while the average temperature from Tuesday to Thursday is  $34^{\circ}$  Celsius. The temperature of Thursday is  $\frac{4}{5}$  times to that of Monday. Find the temperature of Thursday?

a.  $36^{\circ}\text{C}$

b.  $33^{\circ}\text{C}$ 

c.  $37^{\circ}\text{C}$

d.  $34^{\circ}\text{C}$

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52. The average weight of 8 people increases by 1.5 kg, if a man whose weight is 65kgs is replaced by another man. What is the weight of the new man?

a. 77kgs

b. 73Kgs

c. 75Kgs

d. 74kgs

53. A shopkeeper sells a commodity at Rs1470 and earns  $16\frac{2}{3}\%$  profit. Find the cost price of that commodity?

a. Rs 1260

b. Rs 1165

c. Rs 1254

d. Rs 1261

54. A coconut merchant finds that the cost of price of 2750 coconuts is the same as selling price of 2500 coconuts. The loss or gain percent is

a. 5% loss

b. 15% loss

c. 20% gain

d. 10% gain

55. If an article is sold for Rs 178 at a loss of 11%, what should its selling price be in order to earn a profit of 11%?

- |              |           |
|--------------|-----------|
| a. Rs 222.50 | b. Rs 267 |
| c. Rs 222    | d. Rs 220 |

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56. A dishonest shopkeeper sells goods at cost price but uses 900gms in place of 1Kg weight. What is his actual profit percent?

- |                      |        |
|----------------------|--------|
| a. $11\frac{1}{9}\%$ | b. 11% |
| c. 11.4%             | d. 9%  |

57. A piece of land came to person through three middle man each gaining 20%. If the person purchased the land for Rs 3,45,600 the original cost of the land was

- |                |                |
|----------------|----------------|
| a. Rs 1,00,000 | b. Rs 1,50,000 |
| c. Rs 1,75,800 | d. Rs 2,00,000 |

58. In examination, 65% of the students passed in mathematics, 48% passed in physics and 30% passed in both. How much percent of the students failed in both the subjects?

- |        |        |
|--------|--------|
| a. 17% | b. 43% |
| c. 13% | d. 47% |

59. Find the smallest number to be added to the least three-digit number, so that it is exactly divisible by 45.

a. 15

b. 45

c. 25

d. 35

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60. At a party, there are 43 persons in all. The number of women is two more than men but the number of children is 4 less than men. How many women are in the party?

a. 17

b. 13

c. 11

d. 25

61. Find the greatest number which can divide 62, 132 and 237 to leave the same remainder in each case?

a. 23

b. 46

c. 25

d. 29

62. A and B complete a work in 8 days working together. B alone can do it in 12 days. After working for 4 days, B left the work. How many days will A take to complete the remaining work?

a. 16 days

b. 18 days

c. 20 days

d. 22 days

63. If  $\frac{x}{y} = \frac{3}{4}$  then find the value of  $\frac{y-x}{y+x}$

a.  $\frac{1}{7}$

b.  $\frac{1}{5}$

c.  $\frac{1}{9}$

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

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64. If  $a = \frac{x}{x-1}$  and  $b = \frac{1}{x-1}$ , then

a.  $a < b$

b.  $a > b$

c.  $a = b$

d. None of above

65. If  $5x + 8 = x^2 + p = 4x + 9$ , then what is the value of P?

a. 18

b. 19

c. 12

d. 15

**Directions (Q66 – Q70): Three of the following four are alike in a certain way and so form a group. Which is the one that does not belong to that group?**

66.

a. Anxiety

b. Sorrow

c. Joy

~~d. Feeling~~

67.

a. Tortoise

~~b. Rat~~

c. Mongoose

d. Snake



68.

- |           |              |
|-----------|--------------|
| a. Copper | b. Zinc      |
| c. Brass  | d. Aluminium |

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69.

- |        |                   |
|--------|-------------------|
| a. 169 | b. 179            |
| c. 149 | <del>d. 157</del> |

70.

- |        |                   |
|--------|-------------------|
| a. PUT | b. ACT            |
| c. END | <del>d. ARM</del> |

71. If 'x' means ' $\div$ ', 'x' means '+', '-' means 'x' and ' $\div$ ' means '-' then which of the following will be the correct equation?

- |                           |                           |
|---------------------------|---------------------------|
| a. $72+6-3 \times 5+3=38$ | b. $72 \times 6+7+2-6=24$ |
| c. $72+6+3 \times 5-3=45$ | d. $72-6+3 \times 5+3=64$ |

72. If x means '+', y means '-', z means ' $\div$ ' and p means 'x' then  $(20 \text{ p } 2 \times 5 \text{ y } 5) \text{ z } 8 = ?$

- |                 |       |
|-----------------|-------|
| <del>a. 5</del> | b. 10 |
| c. 15           | d. 20 |

73. In a certain language TWENTY is written as 863985 and ELEVEN is written as 323039. How is twelve written in that code?

a. 863230

b. 863303

c. 836203

d. 863203

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74. In a certain code language 'tree is very beautiful' is written as 'ka na da ta' and 'this is strong tree' is written as 'na pa sa ka'. How is 'beautiful' written in that code language?

a. da

~~b.~~ ta

c. sa

d. Data inadequate

75. If 'black' is called 'red', 'red' is called 'white', 'white' is called 'brown', 'brown' is called 'yellow', 'yellow' is called 'blue' and 'blue' is called 'green', then what is the colour of milk?

a. blue

b. green

*c.* brown

d. white

**Directions (Q76 – Q77):** The letters in the word **PROTEIN** are rearranged in such a way that the consonants are arranged alphabetically and then the Vowels are arranged alphabetically.

*N P R T L I O*

76. How many letters will be there between R and I after the rearrangement?

- a. One ~~b. Two~~  
c. Three d. more than three

77. Which of the following will be the third from right after the rearrangement?

- a. T b. 0  
c. R ~~d. E~~

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78. A man is facing west. He turns  $45^\circ$  in the clockwise direction and then another  $180^\circ$  in the same direction and then  $270^\circ$  in the anti-clockwise direction. In which direction is he facing now?

- a. South ~~b. South-West~~  
c. North-West d. West

79. Five persons P, Q, R, S and T are sitting around a round table. Q is sitting between T and S. P is not immediate left of S, then who is sitting second to the right of Q?

- ~~a. P~~ b. R  
c. S d. P or R

80. One evening before sunset Rekha and Hema were talking to each other face to face. If Hema's shadow was exactly to the right of Hema, which direction was Rekha facing?

- a. North
- b. South
- c. East
- d. Data Inadequate

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81. Pointing to a woman in a photograph, a man says, "She is the only daughter of the mother-in-law of my son." How is the woman related to the man?

- a. Daughter
- b. Wife
- c. Daughter-in-law
- d. Mother

**Directions (Q 82-Q 85): Study the following information carefully and answer the given questions:**

One of the seven subjects viz. Maths, Zoology, Botany, Chemistry, Physics, English, and Statistics is taught one day each in a week starting from Monday and ending on Sunday. Chemistry is taught on Thursday. English is taught the day immediately next to the day when Zoology is taught. English is neither taught on Tuesday nor on Saturday. Only one lecture is held between chemistry and Botany. Two lectures are scheduled between Maths and Zoology. Statistics is neither taught on Monday nor Sunday.

Mon - Eng  
Tues - Phys  
Wed - Maths  
Thurs - Chem  
Fri - Stat

Sat - Bot  
Sund - Zoology

82. On which of the following day Physics is taught?

a. Thursday

b. Wednesday

☒ c. Tuesday

d. Monday

83. How many subjects are taught between Botany and Zoology?

a. Three

b. Two

c. One

☒ d. None

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84. Which of the following subject is taught on Saturday?

☒ a. Botany

b. Statistics

c. Zoology

d. Maths

85. On which of the following days Statistics is taught?

a. Sunday

b. Monday

c. Wednesday

☒ d. Friday

86. Find the missing number in the series which replaces the? Mark 3, 7, 16, 32, ?, 93

a. 54

☒ b. 57

c. 56

d. 58

[25]



87. Find the missing alphabet

T	U	?
Q	R	U
N	O	R

a. L

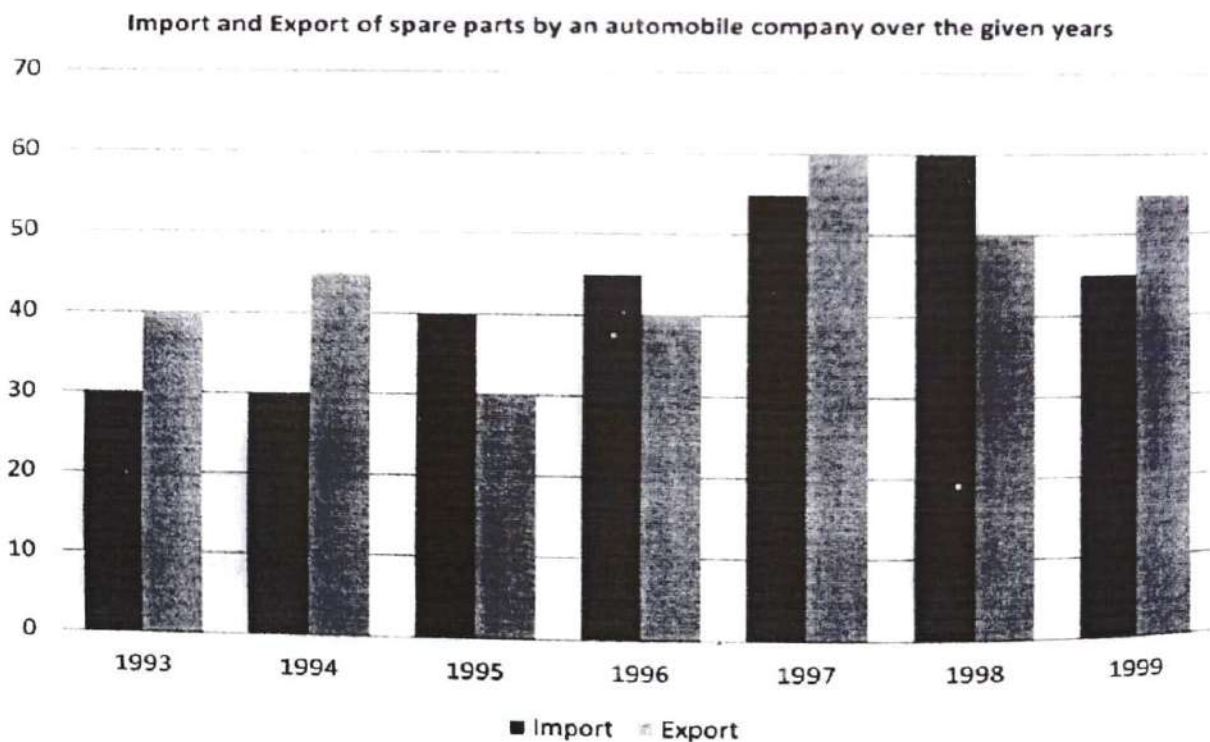
b. O

c. I

d. X

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**Directions (Q88-Q91):** Study the following graph carefully and answers the questions given below it:



88. During which year the percentage rise/fall in imports from the previous year is the lowest?

- |         |         |
|---------|---------|
| a. 1994 | b. 1998 |
| c. 1997 | d. 1995 |

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89. What is the ratio of total imports to the total exports for all the given years together?

- |          |          |
|----------|----------|
| a. 31:35 | b. 61:64 |
| c. 65:63 | d. 63:65 |

90. In which of the following pairs of years the total import is equal to total export in the same pair of years?

- |              |                 |
|--------------|-----------------|
| a. 1996-1997 | b. 1993-1998    |
| c. 1998-1999 | d. All of these |

91. The total exports in the year 1995, 1996 and 1999 together are what percent of the total import during the same period? (Up to two decimal places)

- |           |          |
|-----------|----------|
| a. 107.41 | b. 96.29 |
| c. 93.33  | d. 93.67 |

A pie chart illustrating the distribution of marks in five subjects. The chart is divided into five sectors, each labeled with the subject name and its corresponding angle in degrees.

Subject	Angle (°)
Maths	90°
English	55°
Science	80°
Social Science	65°
Hindi	70°

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- [28]

94. The subject in which the student scored 105 marks is

- |          |            |
|----------|------------|
| a. Maths | b. Science |
| c. Hindi | d. English |

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95. The marks obtained in Maths are what percentage of the total marks

- |        |        |
|--------|--------|
| a. 20% | b. 30% |
| c. 35% | d. 25% |

96. In the following question a statement is given, followed by two conclusions.

Choose the option which correctly follows:

Statement: Medicine 'P' is a drug which is causing ripples in the medical field.

Assumptions: I. No other drug is causing ripples in the medical field.

II. Medicine 'P' is a great drug.

- |    |                                    |
|----|------------------------------------|
| a. | If only assumption I is implicit.  |
| b. | If only assumption II is implicit. |
| c. | If either I or II is implicit.     |
| d. | If neither I nor II is implicit.   |

**Directions (Q97-Q100):** In each of the following questions, there is some relationship between the terms given and you have to find out the same relationship that holds in the given alternatives (words/letters/pairs/groups) below each question.

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97. Dog: Bark:: Goat: ?

- |          |         |
|----------|---------|
| a. Bleat | b. Hawl |
| c. Grunt | d. Bray |

98. 5: 36:: 6:?

- |       |                  |
|-------|------------------|
| a. 48 | <del>b.</del> 49 |
| c. 50 | d. 56            |

99. Pituitary: Brain:: Thymus: ?

- |                      |                 |
|----------------------|-----------------|
| a. Larynx            | b. Spinal Chord |
| <del>c.</del> Throat | d. Chest        |

100. Car: Garage:: Aeroplane : ?

- |                    |            |
|--------------------|------------|
| <del>a.</del> Port | b. Depot   |
| c. Hangar          | d. Harbour |



101. Anti malaria month is observed in

- |          |         |
|----------|---------|
| a. April | b. May  |
| c. June  | d. July |

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102. AIDS virus spreads in the body through

- |                       |                    |
|-----------------------|--------------------|
| a. Suppressor T-cells | b. Carrier T-cells |
| c. Helper T-cells     | d. Killer T-cells  |

103. Inactive cancer gene is called

- |                         |                           |
|-------------------------|---------------------------|
| a. Transposon           | b. Proto-oncogene         |
| c. Tumour promoter gene | d. Tumour suppressor gene |

104. Swine Flu is caused by

- |                  |                |
|------------------|----------------|
| a. HIV           | b. HINI        |
| c. Herpes zoster | d. Mumps virus |

105. Iodine deficiency causes disease.

- |   |                |
|---|----------------|
| <input checked="" type="checkbox"/> a. Goiter | b. Kwashiorkor |
| c. Scurvy                                     | d. Anemia      |

106. Widal test is based on

- |                            |                |
|----------------------------|----------------|
| a. Serological interaction | b. Sonography  |
| c. Endoscopy               | d. Angiography |

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107. Itai-Itai disease is caused by .

- |            |                    |
|------------|--------------------|
| a. Mercury | b. Lead            |
| c. Cadmium | <del>d. Iron</del> |

108. A droplet infection is

- |             |              |
|-------------|--------------|
| a. Tetanus  | b. Pneumonia |
| c. Syphilis | d. Typhoid   |

109. Which is mismatched?

- |                              |                        |
|------------------------------|------------------------|
| a. Vitamin K -Beri beri      | b. Vitamin C - Scurvy  |
| c. Vitamin A - Xerophthalmia | d. Vitamin D – Rickets |

110. All except one is the output indicator of hospital system

- |                               |                    |
|-------------------------------|--------------------|
| a. Patient Satisfaction       | b. Quality of care |
| <del>c. Public Relation</del> | d. Machines        |

111. The study of classification of diseases is called

- a. Nosology
- b. Etiology
- ☒ c. Epitomology
- d. Serology

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112. Lactose is made up of

- a. Glucose + Fructose
- b. Glucose + Glucose
- c. Glucose + Galactose
- d. Fructose + Fructose

113. Hemophilia disease can be transferred through \_\_\_\_\_

- a. Vector
- b. Pollutant
- ☒ c. Heredity
- d. Vehicle

114. \_\_\_\_\_ diseases are also called inborn disease

- a. Infected
- b. Contagious
- c. Acquired
- ☒ d. Congenital

115. A good health triad does not include:

- a. Physical Status
- b. Social Status
- c. Mental Status
- ☒ d. Economic status

116. The main cause of contagious disease is \_\_\_\_\_

- a. Contaminated Air
- b. Contaminated Food
- c. Poor hygienic conditions
- ☒ d. All of the above

117. Scurvy disease is caused by the deficiency of vitamin

- a. Vitamin A
- b. Vitamin D
- c. Vitamin K
- ~~d. Vitamin C~~

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118. Diphtheria is caused by

- a. Virus
- b. Fungi
- c. Protozoan
- ~~d. Bacteria~~

119. The disease carrying agents are called

- ~~a. Pathogens~~
- b. Reservoirs
- c. Vector
- d. Vaccines

120. Which of the following is true about the Malaria disease?

- ~~a. Sore throat and dry cough~~
- b. It is prevented through boiling and chlorinating water
- c. Fever and anemia
- d. Formation of ulcers in the intestine

121. A transmittable protozoan disease is

- a. Syphilis
- b. Cholera
- c. Amoebic dysentery
- d. Sickle cell anemia

122. A sexually transmitted bacterial disease is

- a. AIDS
- ☒ b. Hepatitis
- c. Syphilis
- d. Cholera

123. A sore throat, nose and throat get blocked are the main symptoms of

- ☒ a. Whooping cough
- b. Tetanus
- c. Diphtheria
- d. Gonorrhea

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124. A sudden onset of a disease that requires short term care is commonly known as

- ☒ a. Chronic
- b. Contagious
- c. Acute
- d. Non contagious

125. First step of investigation of epidemic is:

- a. Confirmation of existence
- b. Verification of diagnosis
- ☒ c. Analysis of data
- d. Search the cases

126. The World Health Day is celebrated on \_\_\_\_\_

- a. 1st March
- ☒ b. 7th April
- c. 6th October
- d. 10th December



127. Which one of the following is not a bacterial disease?

- a. AIDS
- b. Dengue
- c. Measles
- d. All of the above

128. Which of the following diseases has been eradicated?

- a. Smallpox
- b. Rinderpest
- c. Polio
- d. All of the above

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129. A kind of an injury or damage, which results in the premature death of all the nearby cells in a tissue or an organ through autolysis is called\_\_\_\_\_

- a. Neurosis
- b. Necrosis
- c. Apoptosis
- d. Cellular senescence

130. Hypochondria is also termed as \_\_\_\_\_

- a. Health anxiety
- b. Sleep apnea
- c. Hypnagogia
- d. Narcolepsy

131. Carcinoma arises from the\_\_\_\_\_

- a. Epithelial cells
- b. Bone Marrow
- c. Pigment containing Cells
- d. None of the above

132. Diseases are broadly grouped into infectious and non-infectious diseases. In the list given below, identify the infectious diseases

i. Cholera

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ii. Sickle cell anemia

iii. Tuberculosis

iv. Cancer

a. i and ii

~~b. i and iii~~

c. ii and iii

d. iv and iii

133. *Ascaris lumbricoides* is a species of parasitic roundworm that lives in \_\_\_\_\_

a. Humans

b. Grasshoppers

~~c. Pigs~~

d. None of the above

134. Plague is caused by the bacterium \_\_\_\_\_

a. *Yersinia pseudotuberculosis*

b. *Yersinia pestis*

c. *Yersinia enterocolitica*

d. None of the above

135. Elephantiasis is caused by \_\_\_\_\_

☒ a. Filarial worms

b. Flatworms

c. Tapeworms

d. None of the above

Directions (Q136-Q137): Fill in the blank with adjective given below.

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136. .... of them is a hard worker.

a. Each

b. Every

c. Everyone

☒ d. Each one

137. I don't want to buy ..... book.

a. some

b. other

☒ c. any

d. any other

Fill in the blank with the suitable word given below.

138. The rose is ..... beautiful.

a. too

☒ b. very

c. much

d. pretty

**Directions (Q139-Q141): In the following questions, choose the word most similar in meaning to the given word.**

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139. Scorn

- |            |              |
|------------|--------------|
| a. Respect | b. Laugh     |
| c. Contemn | d. Criticize |

140. Solecism

- |                    |                      |
|--------------------|----------------------|
| a. Wise saying     | b. Witty argument    |
| c. Clever argument | d. Grammatical error |

141. Adjure

- |              |            |
|--------------|------------|
| a. Subjugate | b. entreat |
| c. Advise    | d. Assert  |

**Directions (Q142-Q144): In these questions, choose the word opposite in meaning to the given word.**

142. Cursory

- |              |              |
|--------------|--------------|
| a. Final     | b. Thorough  |
| c. Impulsive | d. Customary |

143. Insolent

- |             |             |
|-------------|-------------|
| a. Arrogant | b. Humble   |
| c. Ashamed  | d. Ignorant |

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144. Monotony

- |               |                   |
|---------------|-------------------|
| a. Enthusiasm | b. Repetitiveness |
| c. Variety    | d. Singularity    |

**Directions (Q145-Q147): In the questions given below, out of the four alternatives, choose the one which can be substituted for the given word /sentences.**

145. Murder of a new- born child.

- |               |                           |
|---------------|---------------------------|
| a. Homicide   | b. Regicide               |
| c. Fratricide | <del>d. Infanticide</del> |

146. One who specializes in the study of birds?

- |              |                             |
|--------------|-----------------------------|
| a. Biologist | b. Naturalist               |
| c. Zoologist | <del>d. Ornithologist</del> |

147. One whose wife is dead

- |             |                       |
|-------------|-----------------------|
| a. Widow    | <del>b. Widower</del> |
| c. Spinster | d. Bachelor           |



**Directions (Q148-Q150): In the following questions a sentence has been given in Active or Passive Voice. Out of the four alternatives you have to select the one which best expresses the same sentence in Passive or Active Voice.**

148. She considered the appointment an hour

- a. An hour's appointment was considered by her
- b. The appointment was considered an hour by her
- c. The appointment would be of an hour as she considered
- ☒ d. The appointment has been considered an hour by her

149. People speak different languages in India.

- ☒ a. Different languages have been spoken in India
- b. Different languages are spoken in India
- c. Different languages were spoken in India
- d. Different languages had been spoken in India

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150. Who gave you permission to enter?

- a. By whom were you given permission to enter?
- b. By whom were you given permission to enter?
- ☒ c. By whom you were given permission to enter?
- d. By whom given you permission to enter?

**Directions (Q151-Q153):** In the following questions four alternatives are given for the Idiom/Phrase in bold mentioned in the sentence. Choose the alternative which best expresses the meaning of the given Idioms/ phrase.

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151. Dark horse

- |                                |                         |
|--------------------------------|-------------------------|
| a. An extremely corrupt person | b. A notorious criminal |
| c. An extremely rich person    | d. An unexpected winner |

152. On the cards

- |               |                |
|---------------|----------------|
| a. Impossible | b. Shocking    |
| c. Evident    | d. Anticipated |

153. The story does not hold water.

- a. does not deserve appreciation.
- ☒ b. does not fulfill the requirements
- c. cannot be believed
- d. cannot be valued

**Directions (Q154-Q155):** In the following questions, some sentences are given with blanks to be filled with an appropriate word(s). Four alternatives are given for each question. Choose the correct alternative one of the four.

154. All civilized nations now believe in .....treatment of prisoners.

a. human

~~b.~~ humane

c. humanitarian

d. humiliating

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155. .... Every student of English literature must read all the best dramas of Shakespeare.

a. According to me

b. Accordance with

~~e.~~ In my opinion

d. In place of me point of view

Alzheimer's disease impairs a person's ability to recall memories, both distant and as recent as a few hours before. Although there is no cure yet for the illness, there may be hope for a cure with a protein called nerve growth factor. The protein is produced by nerve cells in the same region of the brain where Alzheimer's occurs. Based on this relationship, scientists from the University of Lund in Sweden and the University of California at San Diego designed an experiment to test whether doses of nerve growth factors could service the effects of memory loss caused by Alzheimer's. Using a group of rats with impaired memory, the scientist gave half of the rats doses of nerve growth

factor while giving the other half a blood protein as a placebo, thus creating a control group.

At the end of the four week test, the rats given the nerve growth factor performed equally to rats with normal memory abilities. While experiments do not show that nerve growth factor can stop the general process of deterioration caused by Alzheimer's, they do show potential as a means to showing the process significantly.

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156. This passage is mainly concerned with

- a. cures for Alzheimer's disease
- b. impaired memory of patients
- c. the use of rats as experimental subjects
- d. nerve growth factor as a cure for Alzheimer's

157. According to the passage, where is nerve growth factor produced in the body?

- a. In the pituitary gland
- ☒ b. In nerve cells in brain
- c. In red blood cells in the circulatory system
- d. In nerve cells in the spinal column

158. Which of the following is the most similar in meaning to the word 'impairs'?

- a. Affects
- b. Destroys
- c. Enhances
- ~~d. Diminishes~~

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159. Which of the following can be inferred from the passage?

- a. Alzheimer's disease is deadly
- b. Though unsuccessful, the experiments did show some benefits derived from nerve growth factors
- c. The experiment did not show any significant benefits from nerve growth factor
- ~~d. More work needs to be done to understand the effects of nerve growth factor~~

160. Which of the following patterns of organization does the passage most closely resemble?

- ~~a. Chronological~~
- b. Statement and illustrations
- c. Alphabetical order
- d. None of these



(Q161-Q165) Anxiety and conscience are a pair of powerful dynamos. Of course, I can only speak for myself. Between them, they have ensured that one shall work at anything worthwhile. They are blind forces which drive but do not direct. Fortunately, I have also been moved by a third motive -the wish to see and understand. Curiosity is another motive for action. It is also one of the distinctive characteristics of human nature and contrasted with the natures of non human animals. All human beings have curiosity in some degree and we also have it about things which are of no practical use. Curiosity may be focused on anything in the universe, but the spiritual reality of the phenomena should be the ultimate objective of all curiosity for it to be fruitful. Thanks to my mother, my approach to this ultimate objective is through the story of human affairs.

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161. What is the main objective of this passage?

- a. Distinguish between human beings and animals
- b. Project curiosity as a potent motivating factor
- c. Project anxiety and conscience as inadequate motivators
- ☒ d. Motivation and spiritual reality

162. A characteristic, peculiar to human beings that is referred to is

- a. Superior intelligence
- b. Spirit of enquiry
- c. Capacity to rationalize and analyze
- ☒ d. Ability to shift the practical from the impractical

163. Which of the following statements is true according to the passage?
- a. Animals are as curious as human beings
  - b. Curiosity is the only motive for action
  - c. People motivated by curiosity do not need other motives to guide them
  - ☒ d. People motivated by anxiety and conscience alone can be misdirected

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164. According to the author,
- a. those who have little curiosity are curious about unimportant things
  - b. apart from humans no other living beings have the gift of curiosity
  - c. the highest form of curiosity can be satisfied by the human affairs alone
  - ☒ d. spiritual reality is the ultimate goal of humans through action
165. The author subscribes to the view that
- a. one's curiosity should focus beyond the facade on the latent meaning of things
  - b. curiosity is an inherited family characteristic
  - c. a study of human affairs is the most effective method of satisfying one's curiosity
  - ☒ d. in order to motivate curiosity, must be coupled with anxiety and conscience

(Q166-Q170) Both plants and animals of many sorts show remarkable changes in form, structure, growth habits and even mode of reproduction, in becoming adapted to different climatic environment, types of food supply or mode of living. This divergence in response to evolution is commonly expressed by altering form and function of some parts of the organisms, the original identification of which is clearly discernible e.g. The creeping foot of the snail is seen in related marine pteropods to be modified into flapping organ useful for swimming and is change into prehensile arms that bear suckorial disks into squids and other cephalopods .The limbs of mode of life- for swift running (cursorial) as in the horse and antelope, for swinging in trees (arboreal) as in the monkeys, for digging (fossorial) as in the moles and gophers, for flying (volant) as in the bats, for swimming (aquatic) as in the seals, whales and dolphins and for other adaptations. The structures and organs that show main change in connection with this adaptive divergence are commonly identified readily as homologous, in spite of great alterations. Thus, the finger and the wrist bones of a bat and whale, for instance, have virtually nothing in common except that they are definitely equivalent element of the mammalian limb.

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166. Which is the most appropriate title for the passage, based on its content?

- |                        |                        |
|------------------------|------------------------|
| a. Evolution           | b. Our Changing Bodies |
| c. Adaptive Divergence | d. Changes in Organs   |

167. The author provides information that would answer which of the following questions?

- I. What factors cause change in organism?
  - II. What is the theory of evolution?
  - III. Could structurally different organs be similar in evolution?
- a. Only I
  - b. Only II
  - c. I and III
  - d. I, II and III

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168. The author organizes the passage by

- a. comparison and contrast
- b. general statements followed by examples
- ~~c. hypothesis and proof~~
- d. definition of key terms

169. Which of the following words could best be substituted to 'homologous ' without substantially changing the author's meaning?

- a. Divergent                      b. Corresponding
- c. Altered                         d. Tactile

170. The author's style can best be described as

- a. objective                      ~~b. humorous~~  
c. esoteric                        d. patronizing