

## ENGLISH

**Directions (Q.Nos. 1-12)** In the following questions, some parts of the sentences have been jumbled up, You are required to rearrange these parts which are required to rearrange these parts which are labeled P, Q, R, S to produce the correct sentence. Choose the proper sequence and mark your answer.

1. He had (P) 'no' to him (Q) such a winning smile (R) that I could not say (S)

- a) QPRS            b) RPQS  
c) SPQR           d) PRSQ

2. He nodded (P) he understood (Q) as though (R) everything (S)

- a) PRQS           b) PSQR  
c) QRSP           d) SPRQ

3. The child burned down (P) the house (Q) by playing (R) with matches (S)

- a) RSPQ           b) QSPR  
c) RPSQ           d) QPSR

4. In his innocence (P) I believed (Q) of the charge (R) and acquittal (S)

- a) SQRP           b) QPSR  
c) PRSQ           d) PRQS

5. My little sister in school (P) instead of reading books (Q) who was quite intelligent (R) played with dolls (S)

- a) PRSQ           b) RPSQ  
c) QPSR           d) PRQS

6. For having stood first (P) last year (Q) at the BA examination (R) he was awarded gold medal (S)

- a) PQRS           b) SPRQ  
c) PRQS           d) SRQP

7. We are proud that as our chief guest (P) our mayour (Q) is a former student of this college (R) who is presiding over today's function (S)

- a) PQRS           b) QPRS  
c) PQSR           d) QSPR

8. At the end of the morning exercise, the soldiers (P) to get ready to leave (Q) were asked (R) for an unknown (S)

- a) PQRS           b) RSPQ  
c) SRQP           d) PRQS

9. After having got up from bed the magistrate (P) to bring coffee (Q) ordered the attendant (R) immediately (S)

- a) PQRS           b) SPQR  
c) SPRQ           d) PRQS

10. To resolve it (P) than (Q) it is easier (R) to about a problem (S)

- a) RPQS           b) QPRS  
c) PQSR           d) RSQP

11. To my client (P) that I speak (Q) immediately (R) it is important (S)

- a) SRQP           b) SQPR  
c) SPQR           d) PSQR

12. You had better of getting a good response (P) so that (Q) we will be sure (R) work hard (S)

- a) RSQP           b) SQRP  
c) SQPR           d) RPQS

**Directions (Q.Nos. 13-22)** in the following questions, each of the following items consist of a sentence followed by four words or group of words. Select the antonym of word or words (occurring in the sentence in capital letters) as per context.

13. A small **ALTERCATION** between the children started off a riot.

- a) Quarrel           b) Friendly discussion  
c) Contest           d) Race

14. He agreed reluctantly to sign the form but looked **ILL AT EASE**.

- a) Embarrassed  
b) Comfortable  
c) Welcome  
d) Easy

15. My mother has been working hard for the last two weeks and she feels **RUN DOWN**.

- a) Energetic           b) Cold  
c) Emotional           d) Morbid

16. The three states signed a pact to have **COLLECTIVE** economy.

- a) Distributive           b) Disintegrative  
c) Individual           d) Divided

17. He was deeply hurt by her **CURT** reply.

- a) Abrupt           b) Short  
c) Expansive           d) rude

18. He was asked to **ACCELARTE** the pace of work.

- a) Slacken           b) Control           c) Slacken           d) Supervise

19. The child was **ABDUCTED** when he was going to school

- a) Seized           b) Set free           c) Kidnapped           d) Ransomed

20. The baby has a very **DELIGATE** body.

- a) Crude           b) Strong           c) Hard           d) Bony

21. The government has **ENHANCED** the tuition fees in schools and colleges.

- a) Magnified           b) Aggravated  
c) Decreased           d) Augmented

22. He aims at **PERFECTION** in whatever job he undertakes.

- a) Deficiency           b) Immaturity  
c) Badness           d) Completeness

**Directions (Q. Nos. 23-30)** Read the passages given below, and then answer the questions that follow each passage.

### Passage I

There was a farewell ceremony on her last day at school, to which my parents and I were invited. It was a touching ceremony in a solemn kind of way. The City Corporation sent a representative and so did the two main political parties. There were many speeches and my grandmother was garlanded by a girl from every class. Then the head-girl, a particular favorite of hers, unveiled the farewell present the

*girls had bought for her by subscription. It was a large marble of the Taj Mahal; it had a bulb inside and could be lit up like a table lamp. My grandmother made a speech too, but she couldn't finish it properly, for she began to cry before she got to the end of it and to stop to wipe away her tears. I turned away when she began dabbing at her eyes with a huge green handkerchief, and discovered, to my surprise, that many of the girls sitting around me were wiping their eyes too. I was very jealous, I remember. I had always taken it for granted that it was my own special right to love her; I did not know how to cope with the discovery that my right had been infringed by a whole school.*

**23.** The farewell ceremony described in the passage is for the

- a) Author's mother used to teach at his/her school
- b) Mother of head girl teaching at her
- c) Grandmother of head-girl no longer teaching at her school
- d) Grandmother of the author who used to teach at his/her school

**24.** The farewell ceremony made everyone feel

- a) Sad b) unhappy c) happy d) bad

**25.** Before the writer attended the ceremony he/she had thought

- a) he/she was the only child who loved his/her grandmother
- b) All the girls in the school loved his/her grandmother
- c) Only a few girls in the school loved his/her grandmother
- d) Only his/her parents loved his/her grandmother

#### Passage II

It is no doubt true that we cannot go through life without sorrow. There can be no sunshine without shadow, we must not complain that roses have thorns but rather be grateful that thorns bear flowers. Our existence here is so complex that we must expect much sorrow and suffering. Yet, it is certain that no man was ever discontented with the world who did his duty in it. The world is like a looking glass; if you smile, it smiles, if you frown, it frowns back. Always try, then, to look at the bright side of things. There are some persons whose very presence seem like a ray of sunshine and brighten the whole room. Life has been described as a comedy to those who think and a tragedy to those who feel.

**26.** The author says that we cannot go through life without sorrow because

- a) it is our fate b) we are always discontented
- c) life is a tragedy d) human life is very complex

**27.** According to the author, no man can be discontented with the world if he

- a) Is determined to be happy
- b) Is sincere in discharging his duties

c) Has a healthy attitude to life

d) Likes sunshine

**28.** The expression "life is a tragedy to those who feel" means that it is a tragedy to those who

- a) think about the world
- b) believe in fate
- c) do not understand the world
- d) are sensitive and emotional

**29.** The author says. "there are some persons whose very presence seems like a ray of sunshine and brightens the whole room". The reason for this is that they

- a) Have the capacity to love
- b) Talk more of roses and less of thorns
- c) Are happy and spread happiness
- d) look good and behave well

**30.** What is the author's message in this passage?

- a) look at the bright side of things.
- b) Our existence is so complex.
- c) the world is a looking glass
- d) Expect much sorrow and suffering

**Directions (Q Nos. 31-40)** Each of the following items consists of a sentence followed by four words or group of words. Select the synonym of the word (occurring in the sentence in capital letters) as per the context.

**31.** MOMENTOUS changes are taking place in the social and economic life of India.

- a) Notorious b) Momentary
- c) Official d) Enormous

**32.** His condition DETERIORATED day by day.

- a) Went bad b) Grew worse
- c) Went down d) Grew bad

**33.** She is pretty INSIPID young lady.

- a) Clever b) lazy
- c) Dull d) lean

**34.** It is the difficulty or SCARCITY of a thing that it makes it precious.

- a) Poverty b) Absence
- c) Insufficiency d) Disappearance

**35.** We should not allow ADVERSITY to discourage us.

- a) Poverty b) Darkness
- c) Time of people d) Unfriendly criticism

**36.** He is very OBLIGING by nature.

- a) Helpful b) Nice
- c) Thankful d) Compelling

**37.** She thought the RUNNING INTO her old friend was a stroke of fate.

- a) Meeting by chance
- b) Colliding
- c) Travelling with
- d) Quarrelling with

**38.** He was a CHARISMATIC leader.

- a) Exceptionally Fascinating
- b) Particularly popular
- c) Compulsively pleasant

d) Strangely haunting

**39. She was completely *ENGROSSED* in her work.**

- a) Disturbed      b) Absorbed  
c) Fatigued      d) Successful

**40. He is an *INDEFATIGABLE* worker.**

- a) tired                      b) Tireless  
c) Brave                      d) Skilful

**Directions: (Q. Nos. 41-50) (i) in this section, a number of sentences are given. The sentences are underlined in three separate parts and each one is labeled (a), (b), (c). Read each sentence to find out whether there is an error in any underlined part. No sentence has more than one error. When you find an error in any one of the underlined parts (a), (b) or (c), indicate your responses on the Answer Sheet at the appropriate space. You may feel that there is no error in a sentence. In that case, (d) will signify a 'No error' response.**

**(ii) Errors may be in grammar, word usage or idioms. There may be a word missing or there may be a word which should be removed.**

**(iii) You are not required to correct the error. You are required only to indicate your response on the answer sheet.**

41. None of the applicants have turned up (a) for the interview (b) on time (c) No error (d)  
42. Her mother did not reply (a) when I asked her (b) why was she weeping (c) No error (d)  
43. The oxygen content of Mars is not (a) sufficient enough to support life (b) as we know it. (c) No error (d)  
44. He told his friends that (a) each of them (b) should be able to carry out the orders oneself. (c) No error (d)  
45. if the police would have worked (a) in time (b) the riot would not have occurred (c) No error (d)  
46. The flag is risen in the morning (a) and taken down at night (b) by the guards (c) No error (d)  
47. I have seen him (a) going to the theatre (b) with his friends yesterday evening (c) No error (d)  
48. He was charged of murder (a) though the evidence did everything (b) to convince the judge of his innocence (c) No error (d)  
49. Neither he nor his brother (a) is a good student (b) but both are good players. (c) No error (d)  
50. He has taken charge (a) as principal of our college (b) three years ago. (c) No error (d)

### **Chemistry**

51. Match List-I with List-II and select the correct answer given below:

- | List-I      | List-II         |
|-------------|-----------------|
| A. Electron | 1. Goldstein    |
| B. Proton   | 2. J.J. Thomson |
| C. Neutron  | 3. Chadwick     |
| D. Positron | 4. Anderson     |

Codes:

A B C D

(a) 2 1 3 4

(b) 4 3 1 2

(c) 2 1 4 3

(d) 4 3 2 1

52. The difference between a nuclear reactor and atomic bomb is that:

- (a) no chain reaction takes place in nuclear reactor while in the atomic bomb there is a chain reaction.  
(b) the chain reaction in nuclear reactor is controlled.  
(c) the chain reaction in nuclear reactor is not controlled.  
(d) no chain reaction takes place in atomic bomb while it takes place in nuclear reactor.

53. Match List-I with List-II and select the correct answer from the codes given below:

- | List-I                | List-II          |
|-----------------------|------------------|
| A. Sour milk          | 1. Malic acid    |
| B. Vinegar and pickle | 2. Carbonic acid |
| C. Soda water         | 3. Acetic acid   |
| D. Apple              | 4. Lactic acid   |

Codes:

A B C D

(a) 1 2 3 4

(b) 4 3 1 2

(c) 4 3 2 1

(d) 3 4 2 1

54. Consider the following statements:

Hard water is not suitable for

- |                   |                              |
|-------------------|------------------------------|
| 1. Drinking       | 2. Washing clothes with soap |
| 3. Use in boilers | 4. Irrigating crops          |

Which of these statements are correct?

- (a) 1 and 3                      (b) 2 and 3  
(c) 1, 2 and 4                d) 1, 2, 3 and 4

55. **Match List - I** (oxidation number) with List - II (The element) and select the correct answer using the code given below the list:

- | List - I<br>(Oxidation number) | List - II<br>(The element)   |
|--------------------------------|--|
| A. 2                           | 1. Oxidation number of Mn in MnO <sub>2</sub>                            |
| B. 3                           | 2. Oxidation number of S in H <sub>2</sub> S <sub>2</sub> O <sub>7</sub> |
| C. 4                           | 3. Oxidation number of Ca in CaO   |
| D. 6                           | 4. Oxidation number of Al in NaAlH <sub>4</sub>                          |

Codes :

A B C D

(a) 3 4 1 2

(b) 4 3 1 2

(c) 3 4 2 1

(d) 4 3 2 1

56. Which of the following pairs is/are correctly?

matched?

1. Isotopes : Atoms with same atomic number but different atomic mass.
2. Isobars : Atoms with same number of neutrons but different atomic number.
3. Isotones : Atoms with same mass number but different atomic number.

Select the correct answer using the codes given below :

- (a) 1, 2 and 3                      (b) 1 only  
(c) 1 and 2 only                      (d) 2 only

57. The most common used reductant is:

- a)  $\text{AlCl}_3$                       b)  $\text{PbCl}_2$   
c)  $\text{SnCl}_4$                       d)  $\text{SnCl}_2$

58. The element which exists in liquid state for a wide range of temperature and can be used for measuring high temperature is:

- a) B                      b) Al  
c) Ga                      d) In

59. Element of which following group do not form hydride

- a) Group 7,8,9                      b) Group 13  
c) Group 15,16,17                      d) Group 14

60. Metal Hydride ionic, covalent or molecular in nature. Among LiH, NaH, KH, RbH, CsH the correct order of increasing ionic character is:

- a)  $\text{LiH} > \text{NaH} > \text{CsH} > \text{KH} > \text{RbH}$   
b)  $\text{LiH} < \text{NaH} < \text{KH} < \text{RbH}, \text{CsH}$   
c)  $\text{RbH} > \text{CsH} > \text{NaH} > \text{KH} > \text{LiH}$   
d)  $\text{NaH} > \text{CsH} > \text{RbH} > \text{LiH} > \text{KH}$

61. Consider the following statements:

In  $^{90}\text{Sr}_{38}^{2+}$  :

- (i) Atomic number is 36                      (ii) number of electrons is 38  
(iii) Number of neutrons is 52                      (iv) number of protons is 38

Which of these are correct?

- (a) (i) and (ii)                      (b) (ii) and (iii)  
(c) (iii) and (iv)                      (d) (i) and (iv)

62. The compound that has the least value for octane Number is -

- (a) n-heptane                      (b) 2-methyl heptane  
(c) Iso-octane                      (d) 2, 2-dimethyl hexane

63. What does the airbag, used for safety of car driver?

Contain?

- (a) Sodium bicarbonate                      (b) Sodium azide  
(c) Sodium nitrite                      (d) Sodium peroxide

64. Consider the following statements and select the Correct code.

Assertion (A) : In the periodic table of chemical Elements, electron affinity is always found to Increase from top to bottom in a group

Reason (R) : In a group, the atomic radii generally Increase from top to bottom.

65. Consider the following statements and select the Correct code.

Assertion (A): The main constituent of the Liquefied petroleum gas is methane.

Reason (R): Methane can be used directly for Burning in homes and factories where it can be Supplied through pipelines.

Codes:

(a) Both A and R are true, and R is the correct Explanation of A.

(b) Both A and R are true, but R is not the Correct explanation of A.

(c) A is true, but R is false.

(d) A is false, but R is true.

### PHYSICS

66. The frequency of ultrasound waves is

- a) less than 20 Hz  
b) between 20 Hz and 2 kHz  
c) between 2kHz and 20kHz  
d) greater than 20kHz

67. The magnetic field strength of a current carrying wire at a particular distance from the axis of the wire

- a) depends upon the current in the wire  
b) depends upon the radius of the wire  
c) depends upon the surrounding temperature  
d) None

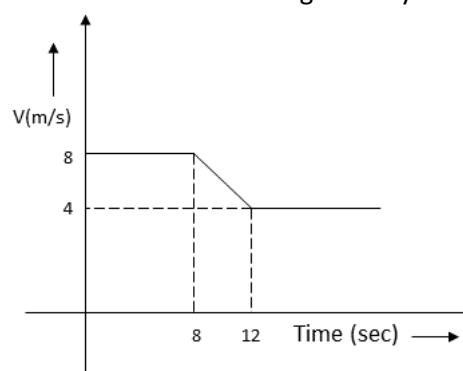
68. Which one of the following is the correct relation between angstrom and nm?

- a)  $1 \text{ nm} = 10^{-1} \text{ angstrom}$  b)  $1 \text{ nm} = 10 \text{ angstrom}$   
c)  $1 \text{ nm} = 1 \text{ angstrom}$  d)  $1 \text{ nm} = 10^{-2} \text{ angstrom}$

69. Which one of the following statements about temperature is correct?

- a) Temperature decreases with height in stratosphere  
b) Temperature is constant at different heights in stratosphere  
c) Temperature increases with height in the troposphere at an average of  $6.5^\circ\text{C}$  per km  
d) Temperature decreases with height in the troposphere at an average of  $6.4^\circ\text{C}$  per km

70. Consider the following velocity and time graph



Which one of the following is the value of average acceleration from 8sec to 12sec?

- a)  $8 \text{ m/s}^2$                       b)  $12 \text{ m/s}^2$   
c)  $2 \text{ m/s}^2$                       d)  $-1 \text{ m/s}^2$

71. A planet has a mass  $M_1$  and radius  $R_1$ . The value of acceleration due to gravity on its surface is  $g_1$ . There is another planet 2, whose mass and radius both are two times that of the first planet. Which one of the

following is the acceleration due to gravity on surface of planet 2?

- a)  $g_1$                       b)  $2g_1$   
c)  $g_1/2$                       d)  $g_1/4$

72. Which among the following order of decreasing wavelengths of electromagnetic waves is correct? I.

Radio waves II. Infrared rays III. Visible Light IV. X-Rays

- a) II, I, IV, III                      b) I, III, II, IV  
c) I, II, III, IV                      d) IV, III, II, I

73. A telescope and microscope differ in that

- a) Both are different instruments  
b) Telescope's eyepiece with longer focal lengths than the objective  
c) Telescope has objective of large focal length and eyepiece of smaller focal lengths  
d) None of these

74. An ice cube is floating on the surface of water:

How will the water level be affected by melting of this ice cube?

- a) Water level will be raised  
b) Water level will go down  
c) Water level will remain the same  
d) Water level will first rise up then it will go down

75. The time period of a simple pendulum having a spherical wooden bob is 2s. If the bob is replaced by a metallic one twice as heavy, the time period will be

- a) more than 2s                      b) 2s  
c) less than 1s                      d) 1s

76. Consider the following statements about a microscope and a telescope:

1. both the eyepiece and the objective of a microscope are convex lenses
2. The focal length of the objective is larger than the focal length of the eyepiece
3. The magnification of a telescope increases with the increase in focal length of its objective
4. the magnification of a microscope increase in focal length of its objective

Which of the statements given above are correct?

- a) 1 and 3                      b) 1 and 4  
c) 2, 3 and 4                      d) 1, 2 and 3

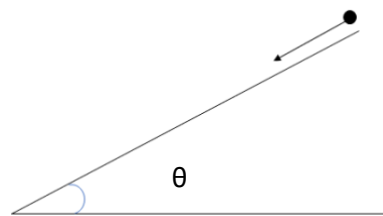
77. Consider the following statements

1. Ohm's law is not applicable at very low and very high temperature
2. Ohm's law is not applicable to semiconductor
3. Ohm's law is not applicable to electron tubes, discharge tubes and electrolytes
4. Conductance is the reciprocal of resistance and is measured in Siemens.

Which of the statements given above is/are correct?

- a) 1, 2 and 3                      b) 1, 2 and 4  
c) 1, 3 and 4                      d) 1, 2, 3 and 4

78. A ball is released from rest and rolls down an inclined plane, as shown in the following figure, requiring 4 sec to cover a distance of 100cm along the plane:



Which one of the following is the correct value of angle  $\theta$  that the plane makes with the horizontal? ( $g = 1000 \text{ cm/sec}^2$ )

- a)  $\theta = \sin^{-1}(1/9.8)$                       b)  $\theta = \sin^{-1}(1/20)$   
c)  $\theta = \sin^{-1}(1/80)$                       d)  $\theta = \sin^{-1}(1/100)$

79. The coefficient of areal expansion of a material is  $1.6 \times 10^{-5} \text{ K}^{-1}$ . Which one of the following gives the value of coefficient of volume expansion of this material?

- a)  $.8 \times 10^{-5} \text{ K}^{-1}$                       b)  $2.4 \times 10^{-5} \text{ K}^{-1}$   
c)  $3.2 \times 10^{-5} \text{ K}^{-1}$                       d)  $4.8 \times 10^{-5} \text{ K}^{-1}$

80. An object is placed in front of a convex mirror.

Which one of the following statements is correct?

- a) It will never form an inverted image  
b) The image moves towards the focus when the object moves towards the mirror.  
c) Depending on the position of the position of the object with respect to the mirror, the image can be inverted and real  
d) none

81. The refractive indices of two media are denoted by  $n_1$  and  $n_2$  and the velocities of light in these two media are respectively  $v_1$  and  $v_2$ . If  $n_2/n_1$  is 1.5, which one of the following statements is correct?

- a)  $v_1 = 1.5 v_2$                       b)  $v_2 = 1.5 v_1$   
c)  $v_1 = v_2$                       d)  $v_1 = 3 v_2$

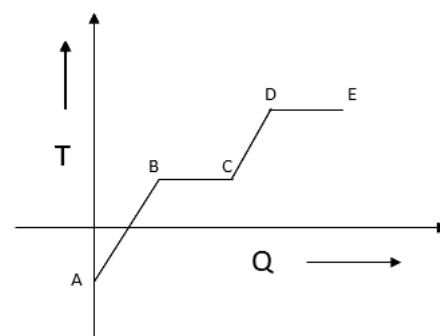
82. A circular coil of radius  $R$  and  $N$  number of turns carries a steady current  $I$ . The magnetic induction at the centre of the coil is 0.1 tesla. If the number of turns is doubled and radius is halved, which one of the following will be correct value for the magnetic induction at the centre of the coil?

- a) 0.5 tesla                      b) 0.2 tesla  
c) 0.4 tesla                      d) 0.8 tesla

83. Graph given below indicates change in

temperature  $\theta$  when heat  $Q$  was given to a substance.

Which among the following parts of the graph correctly depict the latent heat of the substance?



- a) AB and BC                      b) BC and DE

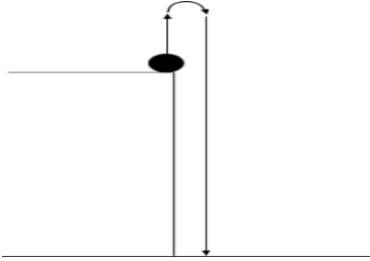
c) CD and DE

d) DE and AB

84. Which of following physical quantities do not have same dimensions?

- a) force & pressure b) work & energy  
c) energy & momentum d) wt. & force

85. A ball is thrown vertically upwards off a cliff at a speed of 37m/s. It falls to the bottom of the cliff after 10 s. What is the height of the cliff? ( $g = 10\text{ms}^{-2}$ )



a) 130m

b) 137m

c) 199m

d) 267m

### CURRENT AFFAIRS

86. The strategic surface-to-surface Agni-IV missile was flight tested from launch complex-4 of the Integrated Test Range (ITR) at Dr Abdul Kalam Island, which was earlier known as \_\_\_\_.

- A. Hanging Island  
B. Wheeler Island  
C. Belle Island  
D. Pocock Island

87. India is planning to gift an aircraft to Seychelles and explore trilateral cooperation involving France. The name of the aircraft is;

- A) Sukhoi Su-30MKI  
B) Mikoyan MiG-29  
C) Dornier  
D) McDonnell Douglas F-15 Eagle

88. Integrated Tiger Habitat Conservation Programme (ITHCP) aims to

1. Protecting tiger species and their prey from the threat of poaching.
2. Preserving tiger habitats, including core habitats, buffer zones and corridors.
3. Supporting human populations living in tiger landscapes.

Which of the above statements is/are correct?

- a) 1,2 b) 1,3 c) 2,3 d) 1,2,3

89. Consider the following statements regarding World Trade Organization (WTO).

1. The World Trade Organization (WTO) is the only global international organization dealing with the rules of trade between nations.

2. WTO can cut the cost of doing business internationally.

3. All the African countries are the members of WTO.

Which of the above statements is/are correct?

- a) 1, 3 b) 2, 3 c) 1, 2 d) 1, 2, 3

90. Consider the following statements about Mission Innovation (MI)

1. Mission Innovation (MI) is a global initiative of 23 countries (which includes India) and the European Commission.

2. It is to accelerate global clean energy innovation with the objective to make clean energy widely affordable.

3. MI was announced at COP24 Katowice 2018.

4. The members have committed to seek to double public investment in clean energy RD&D.

Which of the above statements is/are correct?

- a) 1, 2 b) 1 and 3 c) 1, 2, 4 d) 1, 2, 3, 4

91. The VISION ZERO conference is related to

a) Eliminating Occupational Blindness by 2022.

b) Treating Children who are born blind

c) Improve the occupational safety and health situation.

d) NITI Ayog initiative towards achieving zero pollution in metropolitan cities.

92. Food and Agriculture Organization (FAO) work towards

1. Making agriculture more productive.

2. Help to reduce malnutrition.

3. Reduce rural poverty

4. Increase the resilience of livelihoods to threats and crises.

Select the correct code:

- a) 1, 2, 3 b) 2, 3, 4 c) 1, 2, 4 d) 1, 2, 3, 4

93. Consider the following statements about Asia-Pacific awards for cultural heritage conservation.

1. It is awarded by UNESCO.

2. It recognises the efforts taken to restore and conserve historical structures without affecting their heritage value.

3. New Delhi has won most recognition in India since the inception of the awards.

Which of the above statements is/are correct?

- a) 1,3 b) 2,3 c) 1,2 d) 1,2,3

94. Consider the following statements about Bhuvan, a web mapping service.

1. It allows users to explore a 2D/3D representation of the surface of the Earth.

2. Bhuvan also provides timely disaster support services.

3. It is developed by Indian Institute of Science (IISc), Bangalore.

Which of the above statements is/are correct?

- a) 1, 2 b) 1, 3 c) 2, 3 d) 1, 2, 3

95. Consider the following statements regarding One Nation-One Ration Card scheme.

1. One Nation One Ration Card' scheme, will allow migrant workers to buy subsidised rice and wheat from any ration shop in the country.

2. For availing the benefits under the scheme, it is not mandatory to link ration cards to Aadhaar.

3.If a beneficiary moved to a State where grains were given for free, that person would be able to access those benefits.

Which of the above statements is/are correct?

- a) 1, 2      b) 1 only      c) 1, 3      d) 1, 2, 3

### **BIOLOGY**

96.Five Kingdom classification was given by :

- A) Linnaeus      b) Haeckel  
c) Whittaker      d) Copeland

97. Which one of the following is incorrect?

- a) Leeuwenhoek-Microscope  
b) Robert Brown-Cell Therapy  
c) Protoplasm - Purkinje  
d) Robert Hook -Cell

98. Which of the following corresponds for the start of M-phase ?

- a) Cytokinesis      b) G1-Phase  
c) Karyokinesis      d) Karyogenesis

99. Which following tissue transport hormones, heat and maintain water balance ?

- a) Connective tissue      b) Blood  
c) Muscular      d) Nervous

100. The gas used for artificial ripening of raw fruit:

- a) Ethylene      b) Acetylene  
c) Ethane      d) CO<sub>2</sub>

101. Proteins are absent in :

- a) Pancreatic Juice      b) Bile  
c) Saliva      d) Intestinal Juice

102. The complete digestion of Carbohydrate, proteins and fats occurs in

- a) Stomach      b) Liver  
c) Small intestine      d) Large intestine

103. Exchange of gases between the blood and the tissue of

the body is called :

- a) External respiration      b) Internal respiration  
c) Cellular respiration      d) None of the above

104. Which part of the brain maintains the balance of the body:

- a) Cerebrum      b) Thalamus  
c) Cerebellum      d) Hypothalamus

105. Blood pressure is controlled by :

- a) Thymus      b) Adrenal  
c) Thyroid      d) Pituitary

106. Which of the following is a respiratory disease?

- a) Hepatitis      b) SARE  
c) Influenza      d) Malaria

107. Insects that can transmit diseases to human are referred to as :

- a) Carriers      b) Reservoirs  
c) Vectors      d) Incubators

108. Another name of 'break bone fever':

- a) Typhoid      b) Rhinitis  
c) Yellow fever      d) Dengue

109. Chemically, Silk fibres are mainly :

- a) Protein      b) Carbohydrate  
c) Lipids      d) Lipid+Protein

### **GEOGRAPHY**

110. If you travel by road from Kohima to Kottayam, what is the minimum number of states within India through which you can travel including the origin and the destination?

- A) 6      B) 7      C) 8      D) 9

111. Which among the following is/are correct?

- A) India shares its longest border with China.  
B) India's last west extent is more than that of North-South extent.

112. The sea territory of India extends up to-

- A) 4 Nautical Miles      B) 12 Nautical miles  
C) 200 Nautical miles      D) None of the Above

113. Line Demarcating Boundary between India & China:-

- A) Durand Line  
B) Mc Mohan Line  
C) Strafford line  
D) Radcliffe Line

114. When you travel in Himalayas, you will see the following?

- A) Deep Gorges  
B) U-Turn River  
C) Parallel mountain Ranges  
D) Steep-gradient causing land sliding

115. If there were no Himalayan Ranges, what would have been the most likely geographical impact?

- A) Much of the country would experience the cold waves from Siberia.  
B) Indo-gangetic plain would be devoid of such extensive Alluvial.  
C) The pattern of monsoon would be different from what it is at present

116. Consider the following pairs:-

#### **HILLS**

#### **REGION**

- |                 |                     |
|-----------------|---------------------|
| 1. Cardamom     | a) Coromandal coast |
| 2. Kaimur Hills | b) Konkan coast     |
| 3. Mahadeo      | c) Central India    |
| 4. Mikir hills  | d) North-east India |

Which of the above pairs are correctly matched

- a) 1,2      b) 2,3  
c) 3,4      d) 2,4

117. Which of the following Hills are found where the western and eastern ghats meet?

- a) Anamalai hills      b) Cardamom hills  
c) Nilgiri hills      d) Shevaroy hills

118. In which state is the Guru Shikhar peak located?

- a) Rajasthan      b) Gujarat  
c) Madhya Pradesh      d) Maharashtra

119. Consider the following Rivers:

- i) Kishenganga      ii) Ganga  
iii) Wainganga      iv) Penganga

The correct order of these rivers when arranged in North-south direction is:

- a) i,ii,iii,iv      b) ii,i,iii,iv  
c) ii,i,iv,iii      d) i,ii,iv,iii

120. The Alaati Dam is on the river:  
 a) Godavari                      b) Cauvery  
 c) Krishna                        d) Mahanadi
121. Which of the following east flowing river of the India has rift valley due to down-wrapping?  
 a) Damodar                      b) Mahanadi  
 c) Son                              d) Yamuna
122. Which of the following rivers don't originate in India?  
 a) Beas                            b) Chenab  
 c) Ravi                            d) Satluj
123. Which of the following pairs is not correctly matched?  
 a) Govind Sagar: satluj    b) Killera lake: Krishna  
 c) Ukai Reservoir: Tapi    d) Wullar Lake: Jhelum
124. Which of the following pairs of state of India indicates the eastern most and westernmost states?  
 a) Assam and Rajasthan  
 b) Arunachal Pradesh & Gujarat  
 c) Assam and Gujarat  
 d) Arunachal Pradesh & Gujarat

### **HISTORY**

125. On which of the following systems of Hindu Philosophy, Shankaracharya wrote commentary in 9th century AD?  
 (A) Sankhya                      (B) Vaisheshika  
 (C) Yoga                         (D) Uttarmimansa
126. Upanishads are books on:  
 (A) Politics                      (B) Philosophy  
 (C) Medicine                    (D) Social life
127. Which of the following statement is wrong?  
 (A) Sunga dynasty was founded by Pushyamitra  
 (B) Ashoka the great Mauryan king died in 332 BC  
 (C) Ashoka invaded the Kalinga in 261 BC  
 (D) Chandragupta Maurya earned the title of the Liberator.
128. Which of the following statement is/ are correct?  
 I. In the 326 BC Alexander invaded India.  
 II. Ambhi (king of Taxila) welcomed Alexander and his men  
 III. Alexander died in 332 BC

### **Code:**

- (A) All are correct              (B) Only I, III  
 (C) Only I, II                    (D) II, III
129. Consider the following  
 I. It was the first India's Civil Disobedience movement launched by Mahatma Gandhi.  
 II. It was protest against the injustice meted out to tenant farmers in Champaran district of Bihar.  
*Which of the above statement(s) is/are correct about Champaran Satyagraha?*  
 A) Only I                        (B) Only II  
 (C) Both I and II              (D) Neither I nor II
130. When did M. K. Gandhi arrive in Champaran?  
 (A) April, 1915                  (B) April, 1916  
 (C) April, 1917                  (D) April, 1918

131. Who among the following was the Governor General and Viceroy of India during Champaran Satyagraha?  
 (A) Lord Hardinge              (B) Lord Chelmsford  
 (C) Lord Reading                (D) Lord Irwin
132. Who among the following published first newspaper in India?  
 (A) James Augustus Hickey  
 (B) Lord William Bentinck  
 (C) Lord Cornwallis  
 (D) Sir Thomas Munro
133. What was the title of India's first newspaper?  
 (A) Punjab Mirror              (B) The Bengal Gazette  
 (C) Azad Hind                    (D) Enlighten India
134. The Chinese traveller Hiuen Tsang visited India during the period of which Indian emperor?  
 (A) Harsha                        (B) Pulakesin II  
 (C) Narasimhavarman        (D) Sarvavarman
- POLITY**
135. Which of the article deals with the grants in aid by the Union government to the states?  
 (a) Article 270                  (b) Article 280  
 (c) Article 275                  (d) Article 265
136. The Vice-president is the ex-officio chairman of the Rajyasabha?  
 (a) RajyaSabha  
 (b) LokSabha  
 (c) Planning Commission  
 (d) National Development Council
137. The fundamental duties are included in the constitution by which of the following act?  
 (a) 40th amendment act  
 (b) 44th amendment act  
 (c) 43rd amendment act  
 (d) 42nd amendment act
138. Which of the following is correct with respect to "Right against exploitation"?  
 (a) Prohibition of traffic in human beings and forced labour  
 (b) Freedom as to payment of taxes for the promotion of any particular religion  
 (c) Protection of interests of minorities  
 (d) Equality before law
139. Indian constitution taken the concept of single citizenship from .....  
 (a) USA                            (b) UK  
 (c) Australia                    (d) Japan
140. Which of the following is not a condition to become a citizen of India?  
 (a) Descent                        (b) Birth  
 (c) Naturalization                (d) Acquired property
141. To become a member of Lok Sabha, What should be the minimum age of the candidate?  
 (a) 30 years                      (b) 25 years  
 (c) 35 years                      (d) 18 years
142. The J&K constitution, defined a permanent Resident (PR) as a person-



I. Who was a state Subject on May 14, 1954

II. Who has been a resident of state for 10 years

III. Has lawfully acquired immovable property in the state

Which of the above statement(s) is/are correct about Champaran Satyagraha?

(a) I & II

(b) 2 & 3

(c) 1 & 3

(d) All are wrong

143. Under which condition, a member of parliament can lose his/her membership?

(a) If he/she holds an office of profit under the Union of a State Government.

(b) If he is declared to be of unsound mind by a court.

(c) If he is a bankrupt.

144. Who appoints the Advocate General of states?

(a) Governor of state

(b) Chief Minister of state

(c) Chief justice of the high court

(d) President of India

145. Which of the following bills cannot be introduced first in the Rajya Shaba?

(a) Bill bringing a State under the President's rule

(b) Money Bill

(c) Bill pertaining to the removal of the President by impeachment

(d) Bill proclaiming all the State of emergency arising out of war or external aggression.

146. Supreme court held that the Preamble is not a part of the constitution in which of the following cases:

(a) Berubari Union case (1960) and Kesavanand Bharti case (1973)

(b) Unni Krishnan vs Union of India

(c) Minnerva Mills vs. the union of India and other states

(d) Sunil Batra vs. Delhi Government

147. Article 370 which gives special status to Jammu & Kashmir exist in the Indian constitution because of the agreement between.....

(a) Jawaharlal Nehru and Farukh Abdullah

(b) Jawaharlal Nehru and Maharaja Hari Singh

(c) Ballabh Bhai Patel and Maharaja Hari Singh

(d) Muhammad Ali Jinnah and J.L. Nehru

148. Which statement is NOT correct about the Jammu & Kashmir?

(a) Jammu & Kashmir has its own Constitution.

(b) No decision regarding the disposition of the state of the Jammu & Kashmir can be made by the government of India without the consent of the state government.

(c) Residuary power in respect of Jammu & Kashmir rest with the state government and not the union government.

(d) All of the above are incorrect.

149. On which of the following issue government of India cannot make any law for J & K ?

(a) Communication

(b) Foreign Affairs

(c) Education

(d) foreign security

150. Choose the correct provision of Article 35-A .

1. A person shall not be qualified to be chosen to fill a seat in legislature, unless he is a permanent Resident of the state.

2. No person who is not a permanent Resident of J&K can own property in J&K

3. No person who is not a permanent Resident of J&K can obtain job within J&K government.

4. No person who is not a permanent Resident of J&K can join any professional college run by government of J&K and get any form of govt. Aid out of govt. Funds.

Codes:

(a) 1, 2 & 4

(b) 1, 2 & 3

(c) 2, 3 & 4

(d) all of above