1. Identify the mirror image of the given object if the mirror is placed at AB.

   a) 
   b) 
   c) 
   d) 

2. a and b are real numbers such that $a < b$ and $b = c$.

   i. Which statement is true?
      a) If $a$ is negative, then $b$ and $c$ must be negative
      b) If $a$ is negative, then $b$ and $c$ must be positive
      c) If $a$ is positive, then $b$ and $c$ must be positive
      d) If $a$ is positive, then $b$ and $c$ must be negative

3. Who among the following is just opposite of C?
   a) Q  
   b) R  
   c) P or R  
   d) Data inadequate

4. Which of the following pairs of boy and girl faces each other and is at one of the ends of rows?
   a) S, D  
   b) P, B
5. If the dimensions of a rectangle are doubled, which of the following best describes the effect on the rectangle?
   
   a) The new area will be 2 times as large as the original area.
   b) The new area will be 8 times as large as the original area.
   c) The new perimeter will be 4 times as large as the original perimeter.
   d) The new perimeter will be 2 times as large as the original perimeter.

6. Which of the following statements is not true?
   
   a) 5 hours is $\frac{1}{6}$ of a day
   b) 4 days is $\frac{4}{7}$ of a week
   c) 1 month is $\frac{1}{12}$ of a year
   d) 6 months is $\frac{1}{2}$ of a year

7. The product of HCF and LCM of two distinct prime numbers $p_1$ and $p_2$ is
   
   a) 100
   b) 1
   c) $p_1 p_2$
   d) $\frac{p_1}{p_2}$

8. 10 cows can graze 10 fields in 10 days. In how many days 100 cows can graze such 100 fields?
   
   a) 1
   b) 10
   c) 100
   d) 1000.

9. If CENPBDSUNPQS is written as DOCTOR, then MOTVQSRTDF may be written as
   
   a) PURSE
   b) NURSE
   c) HORSE
   d) FARCE.

10. If a women can do $\frac{1}{p}$ of a work in 2 days, how many days will she take to complete the work in all?
    
    a) $\frac{p}{2}$ days
    b) $p$ days
    c) 2p days
    d) 4p days
Study the following two conditions carefully.

A. Four boys A, B, C, D and four girls P, Q, R and S are standing in two different rows respectively in such a way that each boy faces one girl.

B. C is to the immediate left to D and A is between B and C. Q is just opposite of A and R is between P and Q.

11. Who wrote Two Treaties of Government?
   a) Jeans Jacques Rousseau b) Karl Max
   c) John Locke d) Montesquieu

12. Whose name is associated with the reign of terror?
   a) Louis XVI b) Marie Antoinette
   c) Mirabeau d) Robespierre

13. Which one of the following statements would correctly match with Liberals?
   a) They opposed any change in the society
   b) They wanted to change society
   c) They wanted to bring revolution in the society.
   d) They were the flowers of Monarchy

14. The second world war broke out in the year
   a) 1939 b) 1940
   c) 1945 d) 1949

15. What efforts were made by different Indians to design a national dress?
   a) There were attempts to introduce very tight fitting corsets which was considered the most suitable dress for women.
   b) The Tagore family of Bengal experimented, beginning in the 1870s, with designs for a both men and women in India. Thus, the Chapkan (a lompo buttoned coat) was considered the most suitable dress for men.
   c) There were also attempts to develop a dress style that would draw on tradition of different regions.
   d) Both (b) and (c)

16. Where are Kangra and Kullu valley located?
   a) Jammu and Kashmir b) Himachal Pradesh
   c) Uttarakhand d) Uttar Pradesh
17. Which physiographic division is considered the oldest landmass?
   a) Himalayas   b) Peninsular Plateau
   c) Central Highlands   d) Western Ghats

18. How many permanent members are there in the security council?
   a) 5   b) 6
   c) 7   d) 8

19. Aung San SuuKyi is a political leader of which country?
   a) Sri Lanka   b) Chile
   c) Myanmar   d) USA

20. The women of which country do not have the right to vote?
   a) Japan   b) Saudi Arabia
   c) Indonesia   d) Thailand

21. Which one of the following terms has not been included in the Preamble of the Indian constitution?
   a) Fraternity   b) Equality
   c) Prosperity   d) Liberty

22. Who was termed as "The iron man of India"?
   1. B.R Ambedkar   b) Sardar Vallabh Bhai Patel
   c) Rajendra Prasad   d) Jawaharlal Nehru

23. Which of the following is correctly matched?

<table>
<thead>
<tr>
<th>Name of the Institution</th>
<th>Power exercised</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Parliament</td>
<td>A. Implement the decision to provide relief for the victims of an earthquake.</td>
</tr>
<tr>
<td>II. Judiciary</td>
<td>B. Decision on allocation of money for developing infrastructure like roads, irrigations etc. and different welfare activities for the citizens.</td>
</tr>
<tr>
<td>III. Executive</td>
<td>C. Decides legal dispute between two state governments</td>
</tr>
</tbody>
</table>

   a) I – A, II – C, III – B   b) I – A, II – B, III – C
   c) I – B, II – C, III – A   d) I – C, II – B, III – A
24. Which one of the following is an example of fixed capital?
   a) Raw Material   b) Computers
   c) Money   d) All of these

25. What was the aim of introducing high – yielding variety of seeds?
   a) To produce much greater amount of grain on a single land
   b) To produce greater amount of Wheat
   c) To grow and produce grains at faster rate
   d) All the above

26. How does population become a resource?
   a) When investment is made in the form of education
   b) When investment is made in the form of good health
   c) When investment is made in the form of medical care
   d) All the above

27. Which among the following is the most labour absorbing in primary sector?
   a) Mining   b) Agriculture
   c) Quarrying   d) Dairy Farming

28. Name the recent bill that provides food grain to all.
   a) Poverty alleviation programme
   b) Food security bill
   c) National Advisory Council
   d) None of these

29. A player completes a circular path of radius r in 40 s. At the end of 2 minutes 20 seconds, displacement will be
   a) 2r
   b) $2\pi r$
   b) c) $7\pi r$
   d) zero

30. Which two organelles are thought to have originated from free-living prokaryotic cells?
   a) Mitochondria and ribosomes   b) Chloroplast and nucleus
   c) Chloroplast and mitochondria   d) Lysosomes and mitochondria
31. Average thickness of unit cell membrane is
   a) 5 A   b) 25 A
   c) 75 A   d) 250 A

32. Which of the following has an equal number of neutrons and protons?
   a) Hydrogen   b) Deuterium
   c) Fluorine   d) Chlorine

33. Which of the following have similar chemical properties?
   a) Isotopes   b) Isobars
   c) Allotropes   d) Both isotopes and allotropes

34. Atomicity of Phosphorus is :
   a) 1   b) 2
   c) 4   d) 6

35. If the speed of a motor car becomes six times, the kinetic energy becomes:
   a) 6 times   b) 36 times
   c) 12 times   d) 24 times

36. The moon revolves around the earth because the earth exerts a radial force on the moon. Does the earth perform work on the moon?
   a) No   b) Yes, sometimes
   c) Yes, always   d) Cannot be decided

Complete the passage given below by choosing the correct options:

Millions of people (i) _____________ trouble getting enough sleep. Recent research links lack (ii) _____________ sleep to health problems ranging (iii) _____________ hypertension to obesity. You may have (iv) _____________ medication. You may learn how to stay (v) _____________ from junk food and caffeine.
There is one word missing in each sentence. Choose the correct word from the options given to complete the sentence.

42. The neem tree is found all over country in India.
   (a) in   (b) the   (c) around   (d) a

43. It is a highly medicinal plant leaves, flowers and oil have been widely used as home remedies.
   (a) for   (b) where   (c) whose   (d) the

44. It is full of chlorophyll and its twigs very effective in mouthwash.
   (a) are   (b) is   (c) were   (d) will be

45. A paste of neem leaves is used the treatment of chicken-pox.
   (a) for   (b) in   (c) into   (d) on

Fill in the blanks using appropriate prepositions.

46. She is the only heir .................. my property.
   (a) of   (b) to   (c) for   (d) in

47. The decision ..................this case was announced yesterday.
   (a) in   (b) of   (c) into   (d) on

48. You cannot look .................his game.
   (a) through   (b) into   (c) under   (d) upon

49. She was playing...............the sitar.
   (a) with   (b) on   (c) by   (d) to

50. I prefer coffee ................. tea.
Read the following sentences carefully and give the meanings of the words in italics by choosing the correct option.

51. Coffee is the world’s most heavily traded commodity after crude oil.
   
   i.  (a) harsh  (b) mild  (c) unrefined  (d) slippery

52. We have abundant evidences to prove his guilt.
   
   ii.  (a) scarcity  (b) plentiful  (c) quality  (d) hard

53. The yield of rice in Punjab accounts for 60 per cent of the total produce of India.
   
   iii.  (a) output  (b) growth  (c) Quantity  (d) product

Read the following passages carefully and answer the questions that follow each by choosing correct option:

If we are to believe the latest reports from medical laboratories, immortality is within human reach. By the next century, the possibility of living upto 5,000 years might well become reality. Does this means that it’s time to celebrate the conquest of the frontiers of science? Certainly not. There can be nothing more dismal than the possibility of living indefinitely. What makes life so fascinating is its transient nature. It’s the knowledge that death can come calling anytime and anywhere which gives such poignancy to our lives. This finds expression in Wallace Stevens’s wonderful lines: “Death is the mother of beauty; hence from her, alone shall come fulfillment to our dreams and our desires.” The idea that death is the key to life is also the foundation of Martin Heidegger’s philosophy of being.

The predictions of immortality are at based on dubious science. The scientific fraternity rarely takes seriously the prophets of immortality, who say that one can turn back the biological clock or at least keep it constant.

54. Medical fraternity affirms that

   (a) man can live longer
   
   (b) human being have healthy life
   
   (c) human beings can achieve immortality
   
   (d) human beings can live upto their wish
55. If things are within manageable limits to achieve immortality, we should not.
   (a) celebrate man’s immortality
   (b) say that man can live up to 5000 years
   (c) mean that we can live for indefinite time
   (d) celebrate man’s victory over the final leg of science

56. What thing in life is the biggest dismal for human being?
   (a) possibility of dying one day
   (b) possibility of living indefinitely
   (c) one will not live to his wish
   (d) fear of death

57. Life is so beautiful because of
   (a) its transient nature    (C) natural beauty
   (b) man’s victory over science (D) man’s having brain

58. Martin Heidegger’s philosophy of being is based on
   (a) life ends with death
   (b) life is beautiful
   (c) one can live life for ever
   (d) death as the key of life

59. The word ‘dubious’ means
   (a) baseless                (b) doubtless
   (c) doubtful                (d) credulous

60. If we assume that the humans will live beyond 5,000 years, what will bw its affect on the mankind.
   (a) It will prove a miraculous advantage to the mankind
   (b) It will be a curse given by God
   (c) It will bring destruction to the mankind
   (d) It will keep the people spellbound