MTSE - 2020

Class - 9

1. Fill in the blanks with most suitable option:

   BXD, EUG, IQK, WCY,.....
   1. HOM
   2. IJQ
   3. JPL
   4. MNO

2. Pointing to a man, a girl said that he is father of the sister of my daughter's father. How is that man related to that girl?
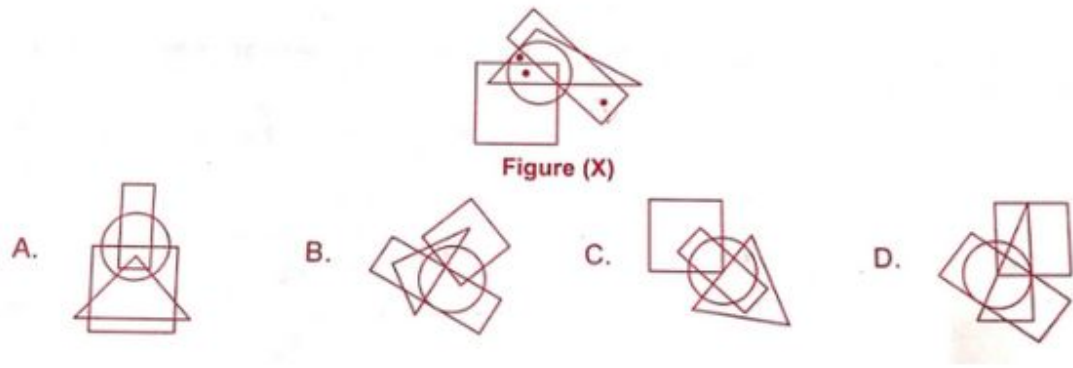   1. Uncle
   2. Father-in-law
   3. Nephew
   4. Brother

3. Find the missing number:

   1. 63
   2. 56
   3. 60
   4. 65

4. Select a figure from the options which satisfies the same conditions of placement of the dots as in Figure(X).
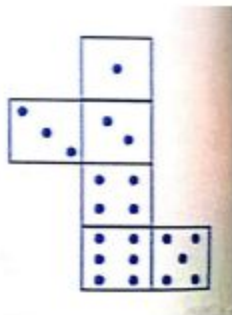
Figure (X)

A.

B.

C.

D.

1. Figure A
2. Figure B
3. Figure C
4. Figure D

5. Six books P, Q, R, S, T and U are placed side by side. R, Q, T have blue covers and other books have red covers. Only S and T are new books and the rest are old. P, R, S are law reports, the rest are Gazetteers with blue covers Which book is old Gazetteers with blue cover?
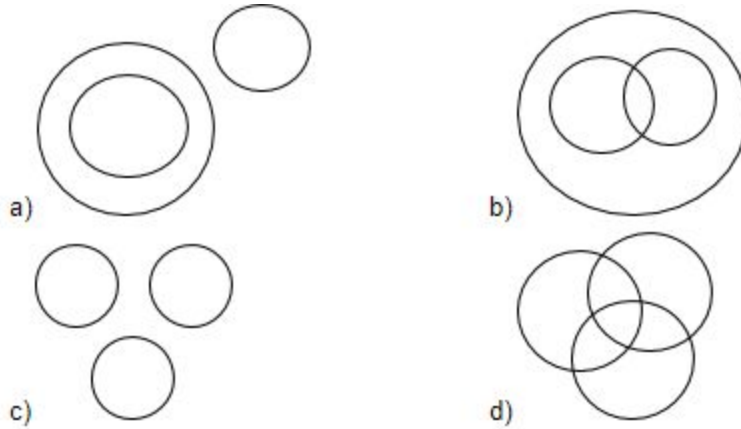
    1. Q
    2. T
    3. R
    4. Data Inadequate

6. When the given figure is folded to form a cube, how many dots would lie opposite the face bearing five dots?

    1. 1
    2. 2
    3. 3
    4. 6

7. Which of the following Venn diagrams best represents the relationship amongst, "Honesty, Intelligence and Aptitude"?

1.Figure a
2.Figure b
3.Figure c
4.Figure d

8. Read the following information to answer the given question.

i) A, B, C, D, E, F and G are playing cards sitting around a circular table.

ii) D is not neighbour of C or E.

iii) A is neighbour of B and C.

iv) G,who is second to the left of D, is the neighbour of E and F.

Which of the following is correct?
1.B is between A and D.
2.D is between F and G.
3.E is to the immediate right of G.
4.F is to the immediate left of G.

9. Captain America remembers that Iron man's birthday falls after 20th May but before 28th May, while Hulk remembers that Iron man's birthday falls before 22nd May but after 12th May.On what date Iron man's birthday falls?
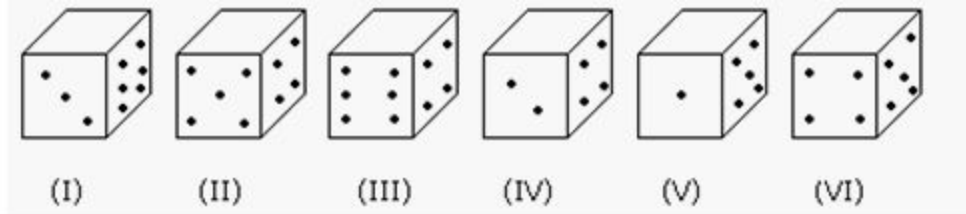1.20th May
2.21st May
3.22nd May
4.can't be determined

Directions (Qs 10-11):

10. Six differents positions of dice are given below:

The sum of the number of dots on the opposite face is 7.

If the odd numbered dice have an even number of dots on their top faces and the even numbered dice have an odd number of dots on their bottom faces, then what is the total number of dots on their top faces

(I)   (II)   (III)   (IV)   (V)   (VI)

1. 26
2. 12
3. 16
4. 18

11. Six different positions of dice are given below:

The sum of the number of dots on the opposite face is 7.

If the odd numbered dice have an odd number of dots on their top faces, then find the total number of dots on the top faces of odd numbered dice.
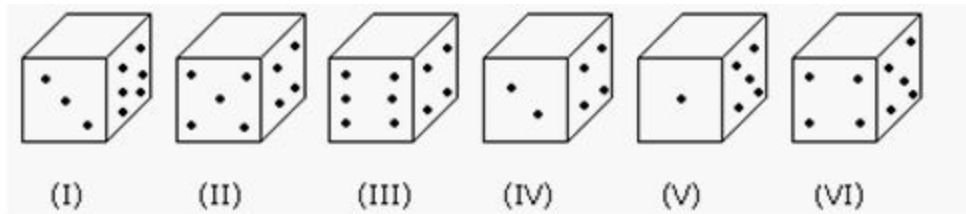

(I)   (II)   (III)   (IV)   (V)   (VI)

1. 11
2. 12
3. 13
4. 14

12. Complete the following Sequence:

4, 5, 8, 13,?
1. 20
2. 44
3. -4
4. All of these

13. A shepherd had 17 sheep. All but eight died. How many was he left with?
  1. 17
  2. 10
  3. 8
  4. 9

14. A cube is painted on all sides. Three adjacent sides are painted red. Two of the remaining sides are painted green and one is painted yellow. The cube is then cut into eight small cubes. So, how many cubes are painted red on three sides?
  1. 0
  2. 1
  3. 4
  4. 6

15. In a row of superheroes, Spiderman is eighth from the left and Antman is seventeenth from the right. If they interchange their positions, Spiderman becomes fourteenth from the left. How many superheroes are there in the row?
  1. 25
  2. 26
  3. 30
  4. 28

16. Complete the following sequence by choosing the appropriate option.

  2, 3, 10, 99, ?
  1. 982
  2. 891
  3. 9802
  4. 8901

17. Count the number of straight lines and squares in the given figure.
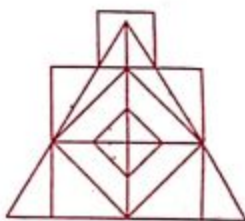
1.19 straight lines, 7 squares
2.18 straight lines, 8 squares
3.18 straight lines, 7 squares
4.19 straight lines, 8 squares

18. Find the last number of the series: 84, 35, 18, 11, ?
    1.4
    2.1
    3.5
    4.8

19. 'A + B' means 'B is brother of A'; 'A x B' means 'B is husband of A'; 'A - B' means 'A is mother of B'; and 'A / B' means 'A is father of B'. Then which of the following expressions indicate 'P is maternal grandmother of T'?
    1.Q-P+R/T
    2.PxQ/R-T
    3.PxQ/R+T
    4.P+Q/R-T

20. If FRIEND is coded as HUMJKT, how is ABCDEF written in that code?
    1. CDEFGH
    2. DCQHQK
    3. CEGIKM
    4. DEQJQM

21.

C	16	9	JR
O	24	19	TX
K	?	?	PV

    1.21, 14
    2.14, 21
    3.56, 84
    4.84, 56

22. Hulk jumps 30 meters towards North. He then turns left and jumps 40 meters. He again turns right and jumps 50 meters. Further, he runs 20 meters after turning to the left. How far is he from his original position?
    1. 140 meters
    2. 80 meters
    3. 120 meters
    4. 100 meters

23. Saroj and Lata start moving from the same point in the same direction. After some time Saroj is 4 km away from Lata. Lata has travelled 1 km. Saroj takes a left turn and travels 8 km, whereas Lata comes back and crosses starting point. Now, the distance between them is 10 km. Find the distance of Lata from their starting point.
    1. 1 km
    2. 2 km
    3. 3 km
    4. 4 km

24. Arrange the words given below in a meaningful sequence.

    1. Poverty

    2. Population

    3. Death

    4. Unemployment

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

25. Find the odd one out:
    1. Flower : Petal
    2. Cover : Page
    3. Circle : Arc
    4. Chair : Leg

26. How many such pairs of letters are there in the word FOREHAND each of which has as many letters between them in the word as they have in the English alphabet?

  1. One
  2. Two
  3. Three
  4. More than three

27. B is the brother of R. J is the sister of R. A is the brother of B. How is R related to A?

  1. Brother
  2. Brother or sister
  3. Sister
  4. Question does not provide sufficient data

Direction (Qs 28-30):

28. Read the information carefully and answer the following questions:

  M + N means M is the mother of N.

  M x N means M is the father of N.

  M $ N means M is the wife of N.

  M % N means M is the sister of N.

  M / N means M is the son of N.

  M # N means M is the husband of N.

  What should come in place of '?' to establish that D is son-in-law of B in the expression 'A % B x C ? D x E'?

  1. %
  2. X
  3. $
  4. Either $ or x

29. Read the information carefully and answer the following questions:

  M + N means M is the mother of N.

M x N means M is the father of N.

M $ N means M is the wife of N.

M % N means M is the sister of N.

M / N means M is the son of N.

M # N means M is the husband of N.

Which of the following options is true if the expression 'A + B % J x L ÷ K' is definitely true?
    1.L is the daughter of B
    2.K is son-in-law of A
    3.B is father of J
    4.A is grandmother of L

30. Read the information carefully and answer the following questions:

M + N means M is the mother of N.

M x N means M is the father of N.

M $ N means M is the wife of N.

M % N means M is the sister of N.

M / N means M is the son of N.

M # N means M is the husband of N.

Which of the given expressions indicates that P is the daughter of Q?
    1.L % R % Q + T % P
    2.L + R $ Q x P % T
    3.L % R $ Q + T x P
    4.B + L $ Q ÷ P x T

31. Complete the series:

WYB, XUD, YQF, …
    1.HZM
    2.ZMH
    3.HCZ

32. A tailor had to cut a number of shirt pieces from a roll of fabric. He cuts each roll of equal length into 11 pieces. He cuts at the rate of 40 cuts a minute. How many rolls would be cut in 20 minutes?
    1.80 rolls
    2.75 rolls
    3.440 rolls
    4.90 rolls

33. In a row of superheroes, if Ironman who is 10th from the left and Captain America who is 9th from the right interchange their positions, Ironman becomes 15th from the left. How many superheroes are there in the row? What is the position of Captain America from the left?
    1.23, 15
    2.23, 9
    3.24, 15
    4.None

34. A clock is started at noon. By 20 min past 4, the hour hand has turned through?
    1.145 degree
    2.155 degree
    3.130 degree
    4.160 degree

35. A woman is returning from the city to her village. She walks 2 km North, then turns West and walks 5 km, then turns south and walks 2 km then turns to her right and walks 7 km. where is she now with reference to her starting position?
    1. 2 km west
    2. 12 km west
    3. 12 km East
    4. 2 km East

36. Solve this:

$$\frac{1}{\sqrt{8-4\sqrt{3}}} + \frac{1}{\sqrt{21+6\sqrt{10}}} + \frac{1}{\sqrt{7+4\sqrt{3}}} + \frac{1}{\sqrt{5+2\sqrt{6}}}$$

    1. 2

2. 2+√15
3. 2-√15
4. None of these

37. The Indian Express says, "We shall issue an astrology section in our Thursday's paper".

Change the voice.

     1.The Indian Express says that it shall issue an astrology section in their Thursday's paper.
     2.The Indian Express says that it will issue an astrology section in its Thursday's paper.
     3.The Indian Express said that it would issue an astrology section in its Thursday's paper.
     4.The Indian Express says that they will issue an astrology section in its Thursday's paper.

38. Match the given columns and select the correct option.

Column I (Sports)	Column II (Countries of origin)
a. Polo	1. USA
b. Hockey	2. India
c. Basketball	3. England
d. Chess	4. Iran

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

39. Which one of the following options is correct for the given statements?

STATEMENT 1: The cell is the basic, structural and functional unit of living organisms.

STATEMENT 2: The tissue is also the basic, structural and functional unit of living organisms.

1. Only Statement 1 is correct.
2. Only Statement 2 is correct.
3. Both statements are correct.
4. Both statements are incorrect.

40. Which of the following is an incorrect statement for the atoms?
    1. Nucleus of an atom is made up of protons and neutrons only.
    2. Atoms are made up of electrons, protons, and neutrons.
    3. Atoms of different elements have the same chemical properties.
    4. Atoms are very tiny particles.

41. The amount of energy needed to melt 2 g of ice is 80 calories. How many joules of energy is needed to melt one kg of ice(1 calorie=4.186J)?
    1. 334880 J
    2. 167440 J
    3. 649800 J
    4. none of the above

DIRECTIONS: Qs-(42-46):

42. Necessity, they say, is the mother of invention. And Indian doctors have been quite creative when hamstrung by few or no tools to perform specific surgeries. They simply design it themselves at one-fourth the price they are sold abroad. In fact, some of their innovations are priced at as much as hundreds of dollars abroad. Take 47-year-old Dr Burjor P Banaji, pioneer of Lasik surgery in India. He's invented over a dozen surgical instruments. When this senior eye surgeon at Max Eye Care started Lasik, there were few surgeons doing it worldwide and no specific instruments were available either. "As I want things super-perfect, I designed a whole slew of instruments that made my surgery more efficient," says Banaji. The most popular instruments are Banaji Lasik Shield and Banaji Lasik Spatula and Canulae. "It was simple. I had the designs in my head. Putting them down on paper was the simplest thing," he says. Instruments manufacturers and large multinationals in the US snapped them up. "They would send me computer generated drawings which I would correct and send back. Their level of execution was astounding. Within two weeks of the designs being finalised, the instruments were in the world market."

His instruments are priced at hundreds of dollars each in the US, and are also sold in Switzerland, South America, Korea, Eastern Europe, Africa and Japan. They're available in India at a fraction of the price.

Read the questions given below and choose the option that you consider the most appropriate answer.

What was the reason that some Indian doctors created their own surgical tools?
       1.They can sell these tools at a very high price.
       2.They have no tools to perform specific surgeries
       3.They have a hamstring problem
       4.The tools they get from abroad cost four times as much

43. Necessity, they say, is the mother of invention. And Indian doctors have been quite creative when hamstrung by few or no tools to perform specific surgeries. They simply design it themselves at one-fourth the price they are sold abroad. In fact, some of their innovations are priced at as much as hundreds of dollars abroad. Take 47-year-old Dr Burjor P Banaji, pioneer of Lasik surgery in India. He's invented over a dozen surgical instruments. When this senior eye surgeon at Max Eye Care started Lasik, there were few surgeons doing it worldwide and no specific instruments were available either. "As I want things super-perfect, I designed a whole slew of instruments that made my surgery more efficient," says Banaji. The most popular instruments are Banaji Lasik Shield and Banaji Lasik Spatula and Canulae. "It was simple. I had the designs in my head. Putting them down on paper was the simplest thing," he says. Instruments manufacturers and large multinationals in the US snapped them up. "They would send me computer generated drawings which I would correct and send back. Their level of execution was astounding. Within two weeks of the designs being finalised, the instruments were in the world market."

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Read the questions given below and choose the option that you consider the most appropriate answer.

What has Dr Burjor P Banaji created?
       1.Lasik surgery
       2.Max Eye Care Centre
       3.two surgical instruments called Banaji Lasik Shield and Banaji Lasik Spatula and Canulae
       4.more than a dozen instruments for operating on the eye.

44. Necessity, they say, is the mother of invention. And Indian doctors have been quite creative when hamstrung by few or no tools to perform specific surgeries. They simply design it themselves at one-fourth the price they are sold abroad. In fact, some of their innovations are priced at as much as hundreds of dollars abroad. Take 47-year-old Dr Burjor P Banaji, pioneer of Lasik surgery in India. He's invented over a dozen surgical instruments. When this senior eye surgeon at Max Eye Care started Lasik, there were few surgeons doing it worldwide and no specific instruments were available either. "As I want things super-perfect, I designed a whole slew of instruments that made my surgery more efficient," says Banaji. The most popular instruments are Banaji Lasik Shield and Banaji Lasik Spatula and Canulae. "It was simple. I had the designs in my head. Putting them down on paper was the simplest thing," he says. Instruments manufacturers and large multinationals in the US snapped them up. "They would send me computer generated drawings which I would correct and send back. Their level of execution was astounding. Within two weeks of the designs being finalised, the instruments were in the world market.

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Read the questions given below and choose the option that you consider the most appropriate answer.

What is the meaning of astounding in the passage?
    1. Surprising
    2. Ignoring
    3. Credible
    4. Believable

45. Necessity, they say, is the mother of invention. And Indian doctors have been quite creative when hamstrung by few or no tools to perform specific surgeries. They simply design it themselves at one-fourth the price they are sold abroad. In fact, some of their innovations are priced at as much as hundreds of dollars abroad. Take 47-year-old Dr Burjor P Banaji, pioneer of Lasik surgery in India. He's invented over a dozen surgical instruments. When this senior eye surgeon at Max Eye Care started Lasik, there were few surgeons doing it worldwide and no specific instruments were available either. "As I want things super-perfect, I designed a whole slew of instruments that made my surgery more efficient," says Banaji. The most popular instruments are Banaji Lasik Shield and Banaji Lasik Spatula and Canulae. "It was simple. I had the designs in my head. Putting them down on paper was the simplest thing," he says. Instruments manufacturers and

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Read the questions given below and choose the option that you consider the most appropriate answer.

The term hamstrung refers to ……………………………
     1.constricted
     2.helped
     3. Unlimited
     4. Liberated

46. Necessity, they say, is the mother of invention. And Indian doctors have been quite creative when hamstrung by few or no tools to perform specific surgeries. They simply design it themselves at one-fourth the price they are sold abroad. In fact, some of their innovations are priced at as much as hundreds of dollars abroad. Take 47-year-old Dr Burjor P Banaji, pioneer of Lasik surgery in India. He's invented over a dozen surgical instruments. When this senior eye surgeon at Max Eye Care started Lasik, there were few surgeons doing it worldwide and no specific instruments were available either. "As I want things super-perfect, I designed a whole slew of instruments that made my surgery more efficient," says Banaji. The most popular instruments are Banaji Lasik Shield and Banaji Lasik Spatula and Canulae. "It was simple. I had the designs in my head. Putting them down on paper was the simplest thing," he says. Instruments manufacturers and large multinationals in the US snapped them up. "They would send me computer generated drawings which I would correct and send back. Their level of execution was astounding. Within two weeks of the designs being finalised, the instruments were in the world market."

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Read the questions given below and choose the option that you consider the most appropriate answer.

What does the phrase slew of instruments refer to?

1.a wide range of instruments

2. instruments used for slaying

3. tools of a similar nature

4.surgical instruments

47. Mrs. Rakhi Sawant wanted to distribute a certain amount between her two children Lava and Kusha in the ratio 5 : 7. But it was found that due to incorrect calculations Lava got one-sixth of the total amount more than what he should get. Find the share of Kusha, in rupees, if Lava got Rs. 560 in all.(in Rs.)

   1. 300
   2. 350
   3. 400
   4. 450

48. What is the value of d in the given figure?
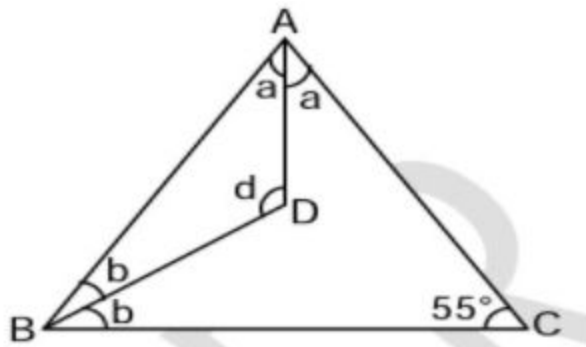
   1. 107.5°
   2. 120°
   3. 200°
   4. 117.5°

49. If Barbie has a right circular cylinder of height 10 cm and diameter 4.5 cm and she wants to make coins by melting the cylinder. Find the number of coins that she can make coins having dimension 1.5 cm in diameter and 0.2 cm thick.

   1. 400
   2. 150
   3. 250
   4. 450

50. She should be ashamed _____ her actions.

   1.by
   2.of

3.at

4.in

51. The Tropic of Cancer does not pass through:
        1.Rajasthan
        2.Odisha
        3.Chhattisgarh
        4.Jharkhand

52. What fraction of seats are reserved for women candidates in the rural and urban local bodies?
        1. Two-third of the seats
        2. One-third of the seats
        3. One-fourth of the seats
        4. Three-fourth of the seats

53. Which of the following Indian Institutes of Technology (IIT) is going to set up India's first school on Quality and Reliability (Q and R)?
        1. IIT New Delhi
        2. IIT Kharagpur
        3. IIT Bombay
        4. IIT Roorkee

54. In an isotonic solution :
        1.Water molecules move from inside to outside of the cell through a semipermeable membrane.
        2.No movement of water molecules across the cell membrane occurs.
        3.Water molecules move from outside to inside the cell through a semipermeable membrane.
        4.Either (a) or (c).

55. Properties of substances W, X, Y and Z are listed below:

        W:- a liquid metal

        X:- a liquid non-metal

        Y:- gaseous non-metal.

Z:-a non-metal which conducts electricity

W, X, Y and Z are respectively
1. Iron ,iodine,hydrogen and oxygen
2. Mercury ,bromine , sulphur and hydrogen
3. Copper ,phosphorus, nitrogen ,and carbon
4. Mercury,bromine,oxygen and graphite

56. A bullet hits the wall with 3 m/s and penetrates 1 m in the wall. Find the acceleration(in m/s^2) applied on object.
1. 9 in the direction of motion
2. 4.5 in the direction opposite to the motion
3. 9 in direction opposite to direction of motion
4. 4.5 in direction of motion

57. The square root of $(x^2 + 4x + 4)(x^2 + 6x + 9)$ is :

1. $x^2 + 2x + 4$

2. $x^2 + 24x + 16$

3. $x^2 + 5x + 6$

4. $x^2 + 6x + 8$

58. Change the following sentence into passive voice.

The book contains many interesting topics.

1. Many interesting topics are contained by the book.

2. Many interesting topics are being contained by the book.

3. Many interesting topics are contained.

4. Many interesting topics are contained in the book.

59. He was an Indian tribal freedom fighter, religious leader and a folk hero who belonged to the Munda tribe. His portrait hangs in the Central Hall of the Indian Parliament, the only tribal leader to have been so honoured.

Name him.
1. Nanasaheb
2. Birsa Munda
3. Karmi Hatu
4. Pasna Munda

60. A monkey wanted to climb on the smooth vertical pole of height 35 metres. In the first one minute he climbs up 5 metres and in the next one minute he slips down by 2 metres. Further he repeated the same process till he has reached on the top of the pole. How many times it has to go upward to reach the apex of the pole?
1. 35
2. 12
3. 11
4. can't say

61. Which of the following is not safety measure for COVID-19 Virus as per according to WHO Guidelines?
1. Safe use of alcohol-based hand sanitizers.
2. Wash your hands with soap and running water.
3. Use of facial masks in public places.
4. Use of hydroxychloroquine medicine in case person is found positive for COVID-19 virus.

62. CALCULATE the temperature at which both the Celsius and Fahrenheit scales show the same reading ?
1. 40 Kelvin
2. 100° fahrenheit
3. -40° celsius
4. -100° celsius

63. Which of the following is true?
1. A body moving with a constant speed in circular motion will have zero acceleration.
2. The law of principle of conservation of linear momentum is applied when net internal force is zero.
3. The mass of any object remains same on earth and moon.
4. Speed has both magnitude and direction.

64. If x+y+z =0 then solve

$$\frac{(x+y)(y+z)(z+x)}{xyz}$$

1. -2
2. -1
3. 0
4. 1

65. Who presided over the first meeting of the Indian National Congress ?
    1. W.C. Bonnerjee
    2. A. O. Hume
    3. Dadabhai Naoroji
    4. none of them

66. 'Sarva Shiksha Abhiyan' is a significant step towards providing education to all children in the age group _____.
    1. 6-14 years
    2. 5-10 years
    3. 5-14 years
    4. 10-15 years

67. The 2011 Cricket World Cup was jointly hosted by India, Sri Lanka and Bangladesh. Stumpy was the official mascot for this event which is a _____.
    1. Young elephant
    2. Young tiger
    3. Young deer
    4. Young kangaroo.

68. The main changes that occur in girls during puberty are:

    (i) development of shrill voice.

    (ii) development of Adam's apple.

    (iii) hips broaden and become more curved.

(iv)production of testosterone increases.

    1. (ii) and (iv)

    2.(iv) ,(ii) and (iii)

    3. (i) and (iii)

    4. (i) only

69. Match the following:

S.no.	Column A	COLUMN B
1.	Flagella	Amoeba
2.	Pseudopodia	Paramoecium
3.	Cilia	Nereis
4.	Tentacle	Euglena

    1.1-d,2-a,3-b,4-c

    2.1-c,2-a,3-d,4-b

    3.1-b,2-c,3-a,4-d

    4.1-c,2-a,3-b,4-d

70. A block of mass 200g is kept at rest breaks into two parts due to internal forces. One part of mass 100g is found to move at a speed of 12m/s towards east.Then,

    1.The other part will move at a speed of 12m/s towards the east.

    2.The other part will move at speed of 6m/s towards west.

    3.The other part will move at a speed of 12m/s towards the west.

    4.The other part will move at a speed of 6m/s towards the east.

71. Change into Passive voice: Neighbours took the injured to the hospital.

    1. The injured was taken to the hospital by neighbours.

2. The injured were taken to the hospital by neighbours.

3. The injured was taken by neighbours to the hospital.

4. The injured were taken by neighbours to the hospital.

72. Six strings of violin start vibrating simultaneously in Tony Stark wedding and their friends. The strings vibrate at 3, 4, 5, 6, 10 and 12 times in a second, find

I. After how much time will all six of them vibrate together?

II. How many times will they vibrate together in 30 min?

1. 60 sec, 31 times

2. 60 min, 31 times

3. 120 sec, 15 times

4. None of these

73. He _____ friends has come back.

1. and his

2. or his

3. along with his

4. along with their

74. Which of the following statements is incorrect?

1. Exocrine glands are the glands having ducts.

2. Endocrine glands are the ductless glands.

3. Hormones are secreted by endocrine glands.

4. None of these.

75. Which of the following is correct about Nylon fibres?

        1.Nylon fibres are very strong.

        2.Nylon fibres absorb very little water.

        3.Nylon fibres are fairly elastic.

        4.All the above.

76. A particle is taken to a height 2R above the Earth's surface, where R is the radius of the earth. The acceleration due to gravity there will be

        1. 2.45 m/s^2

        2. 3.4 m/s^2

        3. 9.8 m/s^2

        4. 1.08m/s^2

77. $9 + x_{-4} = 10x_{-2}$, find sum of all possible values of x.

        1.⅓

        2.−2 /3

        3.2

        4.0

78. Based on the statements given below choose the correct answer.

P:- some sugar can be added to a glassful of water without causing an overflow.

Q:- liquids have spaces present between the molecules.

        1.P and Q are true and Q explains P.

        2.P and Q are true but Q does not explain P.

        3.Only Q is true.

4.Only P is true.

79. The remainder when n is divided by 3 is 1 and the remainder when (n + 1) is divided by 2 is 1. The remainder when (n − 1) is divided by 6 is

1.2

2.3

3.5

4.None of these

80. Which Football club won the UEFA Europa league in 2020?

1.Manchester United F.C.

2.Sevilla F.C.

3.Inter Milan F.C

4.Real Madrid F.C.