

PRATAPGARH TALENT SEARCH EXAMINATION-2022

PRATAPGARH TALENT SEARCH EXAMINATION-2022

DATE:, VENUE-EINSTEIN PUBLIC SCHOOL, LALGANJ (AJHARA)

INSTRUCTIONS

Note – Do not open this test Booklet until you are told to do so.

Time 3:00 hrs

Max. Marks – 100

Write your Roll no. in Box

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- ❖ To mark answer use black/blue ball – Point Pen only
- ❖ Candidate must read all the instructions before writing answer
- ❖ You are to mark your answer on answer-sheet only. When the examination is over, handover the Answer-sheet to the invigilator.

Important Instructions

1. There are two Section
2. Answer all questions. All questions carry equal marks
3. The candidate should indicate the correct roll number on the answer-sheet, otherwise the answer-sheet will not be evaluated and the candidate will be solely responsible for it.
4. This booklet contains 100 questions. Each question has four (4) alternative answers. Bubble indicating the correct answer shall be filled up in the answer-sheet using black/ blue ball point pen only. If more than one answer are marked, it shall be treated wrong answer and it will not be evaluated.
5. Do not write anything on the cover page of the test booklet except Roll No.
6. There will not be any penalty for wrong answers.

PRATAPGARH TALENT SEARCH EXAMINATION-2022

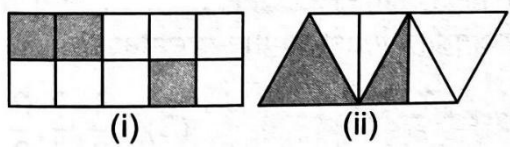
1. Ninety million ninety thousand ninety is same as _____.
 (A) 9090090 (B) 90090090
 (C) 909090 (D) 9090900
2. What will we get, if we subtract 1 from the smallest 6-digit number?
 (A) 99999 (B) 100009
 (C) 19999 (D) 999999
3. 100 lakh = _____.
 (A) 10 million (B) 1 million
 (C) 100 million (D) 10 crore
4. Face value of 3 in 7, 21, 348 is _____.
 (A) Three (B) Three hundred
 (C) Three thousand (D) Three lakh
5. Largest 5-digit number that can be formed by using digits 6, 4, 0 and 7 each atleast once is _____.
 (A) 77460 (B) 64770
 (C) 76740 (D) 77640
6. Which of the following number is prime ?
 (A) 35 (B) 88
 (C) 41 (D) 92
7. What could be the number in the START box?



- (A) 116256 (B) 106256
 (C) 384120 (D) 102656
8. The sum of 3rd multiple of 3 and 5th multiple of 5 is divisible by _____.
 (A) 5 (B) 3
 (C) 4 (D) 2
9. The quotient when 222816 is divided by 24 is _____.
 (A) 9286 (B) 9284
 (C) 9248 (D) 2984
10. Jimmy's balance in a bank on 1st November was ₹ 58709. He withdrew ₹ 13090 and ₹ 16518 from his account and deposits ₹ 1680 in his account in that month. What was the balance at the end of the month?
 (A) ₹ 30001 (B) ₹ 29101
 (C) ₹ 29001 (D) ₹ 30781

PRATAPGARH TALENT SEARCH EXAMINATION-2022

11. What is the sum of the shaded fractions of the given figures?



- (A) $\frac{27}{40}$ (B) $\frac{13}{20}$
(C) $\frac{40}{27}$ (D) $\frac{20}{13}$

12. In the product of 27.45 and 5, find the place value of digit 2.

- (A) 0.02 (B) 0.20
(C) 2 (D) 20

13. Which of the following shows the equivalent fraction of $\frac{4}{7}$?

- (A) $\frac{8}{12}$ (B) $\frac{12}{21}$
(C) $\frac{12}{24}$ (D) $\frac{24}{40}$

14. What must be added to $2\frac{2}{5}$ to give $3\frac{3}{10}$?

- (A) $\frac{9}{10}$ (B) $1\frac{1}{5}$
(C) $\frac{5}{6}$ (D) $5\frac{7}{10}$

15. Vineet packed $\frac{3}{4}$ kg of sugar each into 42 bags. Find the total weight of sugar Vineet packed.

- (A) 34.5 kg (B) 3.45 kg
(C) 31.5 kg (D) 345 g

16. A pole is painted red and white. The red portion is 1.8 m long and the white portion is three times as long as the red portion. How long is the pole?

- (A) 5.4 m (B) 7.2 m
(C) 3.6 m (D) None of these

17. Reema pours 2 L 50 mL of juice equally into 9 glasses. How much juice is there in each glass?

- (A) 600 mL (B) 300 mL
(C) 250 mL (D) 150 mL

18. The cost of 1 kg of potatoes and 1 kg of onions are ₹ 25.20 and ₹ 35.70 respectively. If Rakesh bought 3 kg potatoes and 5 kg onions, then find the total amount paid by him.

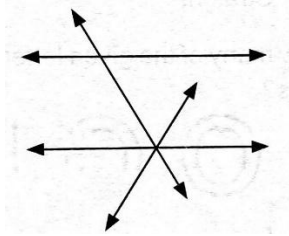
- (A) ₹ 180.50 (B) ₹ 296
(C) ₹ 320 (D) ₹ 254.10

PRATAPGARH TALENT SEARCH EXAMINATION-2022

19. At what time given below do the minute and hour hands of a clock make a straight angle?

- (A) 12 O'clock (B) 6 O'clock
(C) 5 O'clock (D) 3 O'clock

20. How many pairs of intersecting lines are there in the given figure?

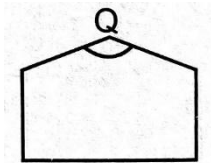


- (A) 0 (B) 4
(C) 2 (D) 5

21. An angle which measures 180° is called _____ angle.

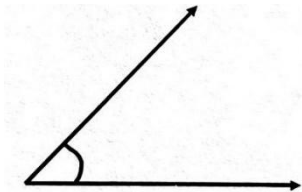
- (A) Acute (B) Obtuse
(C) Right (D) Straight

22. Which type of angle best describes angle Q?



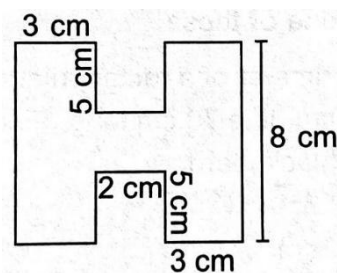
- (A) Obtuse (B) Acute
(C) Right (D) Straight

23. What is the approximate measure of the angle shown in the given figure?



- (A) 20° (B) 45°
(C) 110° (D) 135°

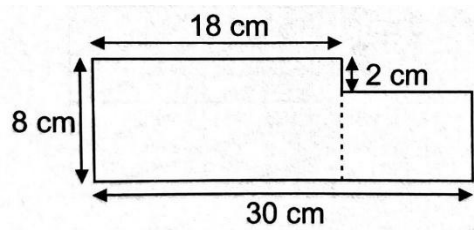
24. Find the perimeter of the given figure (not drawn to scale).



- (A) 50 cm (B) 60 cm
(C) 52 cm (D) 48 cm

PRATAPGARH TALENT SEARCH EXAMINATION-2022

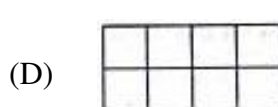
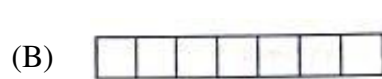
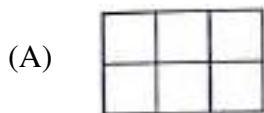
25. The given figure (not drawn to scale) is made up of two rectangles. Find its total area.



- (A) 144 sq. cm (B) 216 sq.cm
(C) 240 sq. cm (D) 300 sq. cm
26. How many prime numbers are there between 1 and 25?
(A) 8 (B) 11
(C) 9 (D) 15
27. Mansi practices on her guitar $7\frac{1}{2}$ hours in a week. If she practices $1\frac{1}{2}$ hours on each day, then how many days does she practice each week?
(A) 5 (B) 6
(C) 9 (D) 8
28. All the factors of 60 greater than are _____.
(A) 2, 3, 5 and 6 (B) 20 and 30
(C) 12, 15, 20, 30 and 60 (D) 60, 120 and 180
29. 91 is a multiple of _____.
(A) 3 (B) 9
(C) 11 (D) 13
30. Which one of the following is a prime number ?
(A) 161 (B) 221
(C) 373 (D) 437
31. In how many ways can the number 616 be written as a product of the two numbers one of which is a prime number ?
(A) 1 (B) 2
(C) 3 (D) 4
32. Which one of the following is different from all others ?
(A) $\frac{12}{20}$ (B) $\frac{15}{25}$
(C) $\frac{18}{30}$ (D) $\frac{21}{40}$
33. By how many minutes is $3\frac{1}{4}$ hours greater than $1\frac{7}{12}$ hours ?
(A) $60\frac{2}{3}$ minutes (B) 62 minutes
(C) 75 minutes (D) 100 minutes

PRATAPGARH TALENT SEARCH EXAMINATION-2022

34. 2 hour 40 min is $\frac{5}{8}$ of ____.
- (A) $1\frac{1}{2}$ h (B) $1\frac{2}{3}$ h
(C) $8\frac{1}{3}$ h (D) $4\frac{4}{15}$ h
35. A vessel had $3\frac{1}{4}$ litres of milk. A cat drank $\frac{1}{2}$ litres. How much milk is left in the vessel?
- (A) $3\frac{1}{2}$ l (B) $3\frac{1}{8}$ l
(C) $2\frac{1}{4}$ l (D) $2\frac{3}{4}$ l
36. Pradeep bought 3 handkerchief for ₹ 72. The average price of two of them was ₹ 19.90. What was the price of the third one ?
- (A) ₹ 24 (B) ₹ 32.20
(C) ₹ 39.80 (D) ₹ 52.10
37. If $0.8 \times x = 0.0004$, then the value of x is ____.
- (A) 0.005 (B) 0.0005
(C) 0.5 (D) 5
38. 3 hours after 9:30 am is
- (A) 12:30 pm (B) 12:30 am
(C) 1:00 am (D) None of these
39. Area of a square is given by ____.
- (A) side $\times$ side (B) side + side
(C) $3 \times$ side (D) $4 \times$ side
40. The perimeter of a rectangular picture is 160 cm. It is 30 cm wide. How long is it ?
- (A) $5\frac{1}{3}$ cm (B) 50 cm
(C) 100 cm (D) 130 cm
41. Which figure has an area of 9 square units and a perimeter of 12 units ? Each square block is of side 1 unit.



PRATAPGARH TALENT SEARCH EXAMINATION-2022

42. How many times is the volume of a 10 cm cube as large as the volume of 5 cm cube ?
(A) 2 (B) 4
(C) 5 (D) 8
43. A line has _____
(A) fixed length (B) infinite length
(C) no length (D) none of these
44. Which one of the following is a false statement ?
(A) A line segment has two ended points (B) A ray has no end point
(C) A line has no end point (D) None of these
45. Points which lie on a straight line are
(A) angular (B) non-collinear
(C) collinear (D) pointless
46. Parallel lines are always _____.
(A) coincident (B) equal
(C) equidistant (D) none of these
47. A triangle whose all sides are equal is
(A) scalene triangle (B) equilateral triangle
(C) isosceles triangle (D) none of these
48. Half of a circle is called _____.
(A) a diameter (B) a chord
(C) an arc (D) a semi circle
49. Choose the one which is different from the other.
(A) 263 (B) 111
(C) 242 (D) 383
50. How many even numbers are there in the sequence :
5 1 4 7 3 9 8 5 7 2 6 3 1 5 8 6 3 8 5 2 2 4 3 4 9 6
which are immediately preceded and also immediately followed by an even number ?
(A) 1 (B) 2
(C) 3 (D) 4
51. One paisa is worth one hundredths of a rupee. Which of the following represents 5 hundredth of a rupee ?
(A) ₹ 5.00 (B) ₹ 0.50
(C) ₹ 0.005 (D) ₹ 0.05

PRATAPGARH TALENT SEARCH EXAMINATION-2022

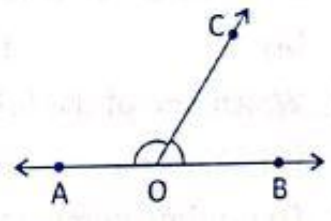
52. What should be added to 18962 to make it exactly divisible by 13 ?

- (A) 2 (B) 3
(C) 4 (D) 5

53. 1 is :

- (A) a multiple of 10 (B) an even number
(C) a composite number (D) an odd number

54. In the given figure, points A, O and B are collinear. What is $\angle AOC + \angle COB$?

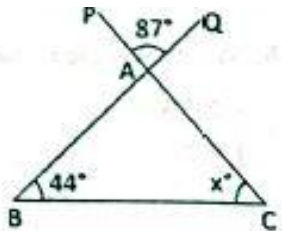


- (A) 90° (B) 180°
(C) 270° (D) 360°

55. When n is divisible by 4, the remainder is 3. What is the remainder when $2n$ is divided by 4 ?

- (A) 1 (B) 2
(C) 3 (D) 6

56. In the figure, PAC and QAB are straight lines. The value of x is _____.



- (A) 63 (B) 52
(C) 49 (D) 39

57. In which sets of figures 'all sides are equal' ?

- (A) Rhombus, Square (B) Rhombus, Rectangle
(C) Parallelogram, Rhombus (D) Rectangle, Square

58. If a seven sided polygon is divided into triangles, by drawing all diagonals from one vertex, how many triangles would be there ?

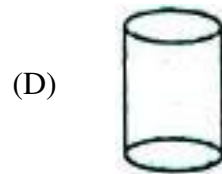
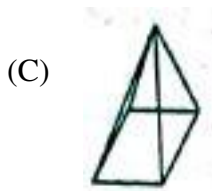
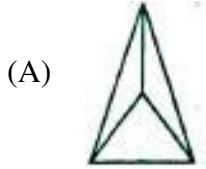
- (A) 1 (B) 4
(C) 5 (D) 6

PRATAPGARH TALENT SEARCH EXAMINATION-2022

59. The angle which is one-fifth of its complement is _____.

- (A) 180° (B) 360°
(C) 270° (D) None of these

60. Which figure has 4 faces, 6 edges and 4 vertices ?



PRATAPGARH TALENT SEARCH EXAMINATION-2022

61. Select the incorrect statement out of the following
- (A) Species are obtained from plants
 - (B) Eating less amount of fibre rich food can lead to constipation
 - (C) Skull has no joints and encloses the brain
 - (D) Night blindness is caused by deficiency of vitamin A
62. In case of an LPG gas leak in the house, you should _____.
- (A) Open all doors and windows of the house
 - (B) Not switch on or off any electrical switch
 - (C) Not light a matchstick
 - (D) All of these
63. We should exercise yoga daily, because it _____.
- (A) Strengthens muscles
 - (B) Increases stamina
 - (C) Improves concentration
 - (D) All of these
64. In our diet, we should have different nutrients in sufficient amounts. Select the option that gives correct order of amount of different nutrients required by our body.
- (A) Carbohydrates < Proteins < Fats < Minerals
 - (B) Carbohydrates > Proteins > Fats > Minerals
 - (C) Proteins < Fats < Minerals < Carbohydrates
 - (D) Proteins > Fats > Minerals > Carbohydrates
65. The purpose of the activity shown in the picture is



- (A) To separate grains from the stalks of the crop
- (B) To protect the crop from grazing animals
- (C) To irrigate the crop fields
- (D) To separate grains from the chaff

PRATAPGARH TALENT SEARCH EXAMINATION-2022

66. Select the correct statement regarding natural resources.
- (A) They can never be exhausted
 - (B) They are obtained from soil only
 - (C) Wind energy is a renewable natural resource
 - (D) None of these
67. _____ is the organic component of the soil formed by action of soil my microorganism.
- (A) Gravel (B) Humus
 - (C) Sand (D) Clay
68. Which of the following statements is correct?
- (A) Coal is the most abundant fossil fuel on Earth
 - (B) Silica is an example of metallic mineral
 - (C) Gneiss is a sedimentary rock formed from conglomerate
 - (D) Shale is a hard and heavy volcanic rock formed due to quick cooling down a lava
69. Select the correct statement out of the following.
- (A) Sandy soil needs regular addition of fertilisers as it holds a large amount of water
 - (B) Loamy soil has good qualities of both sandy and clayey soil and thus is most suitable for pottery
 - (C) Clayey soil develops cracks in hot weather causing harm to the roots of plants, thus is not suitable for agriculture
 - (D) The water holding capacity is highest in clayey soil and lowest in loamy soil
70. There were a large number of dead fish drifting towards the shore. Many dead birds with sticky, black coating and feathers could also be seen there. A/An _____ might have occurred nearby.
- (A) Tsunami (B) Volcanic eruption
 - (C) Oil spill (D) Earthquake
71. Select the method that prevents soil erosion by water.
- (A) Terrace farming (B) Wind breaks
 - (C) Embankments (D) Both (A) and (C)
72. When oxides of nitrogen and sulphur react with water vapour in the air they cause _____.
- (A) Ozone depletion (B) Global warming
 - (C) Acid rain (D) Oil spill

PRATAPGARH TALENT SEARCH EXAMINATION-2022

73. If an earthquake occurs, which of the following you should do?

- (A) If you are indoors, stay in and get under a desk or a table.
- (B) If you are outdoors, stay away from trees and buildings.
- (C) If you are on a beach, get into the sea.
- (D) Both (A) and (B)

74. Which one of the following pairs is wrongly classified?

Positive effect on the environment

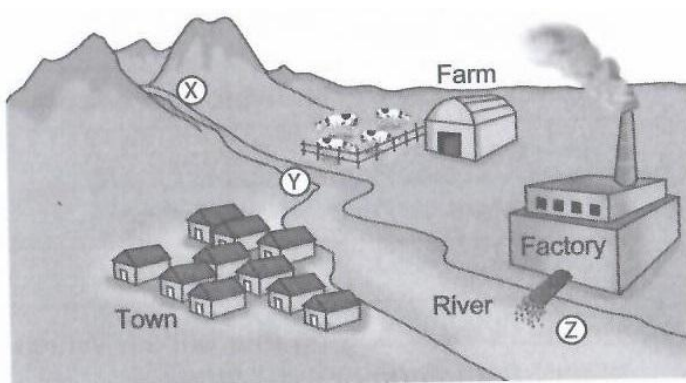
Negative effect on the environment

- | | |
|--|--|
| (A) Incinerating rubbish in residential areas open | Covering opened dustbins left out in the open |
| (B) Using public transport and cutting down use of fossil fuel | Cutting down trees |
| (C) Collecting rainwater for watering garden plants | Discharge of agricultural runoff into water bodies |
| (D) Using recycled material | Leaving unfinished food at the canteen table |

75. Which of the things listed below are non-biodegradable?

- | | |
|------------------------------|------------------------------|
| (i) Cotton T-shirt | (ii) Glass Cup |
| (iii) Gold necklace | (iv) Roasted chicken |
| (v) Debit card | (vi) Banana |
| (A) (i) and (ii) only | (B) (iii) and (iv) only |
| (C) (iii), (iv) and (v) only | (D) (ii), (iii) and (v) only |

76. Referred to the given figure and select the correct option regarding sides X, Y and Z.



- (A) The amount of dissolved oxygen could be maximum at site Z.
- (B) Number of fish at site X will be more than at site Y.
- (C) Site X has the most poor quality of water
- (D) Both (A) and (B)

PRATAPGARH TALENT SEARCH EXAMINATION-2022

77. The constellation shown here is known as _____.



- (A) Ursa Major (B) Ursa Minor
(C) Cassiopeia (D) Scorpius

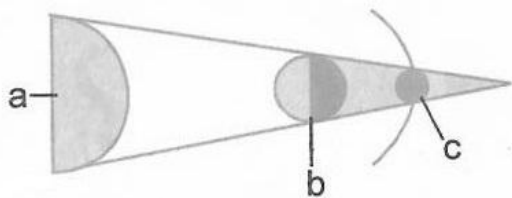
78. Tides are caused by _____.

- (A) Gravitational pull of Earth (B) Gravitational pull of Sun
(C) Gravitational pull of Moon (D) Both (B) and (C)

79. Select the correct match from the following.

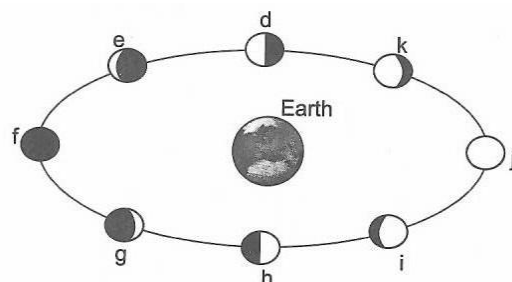
- (A) Venus – It has 2 moons
(B) Saturn – Its rings are made of ice, rocks and dust
(C) Jupiter – Largest and farthest planet from the Sun
(D) Mercury – Hottest planet

80. Look at the given figure. It shows lunar eclipse. Where is the Moon in it?



- (A) a (B) b
(C) c (D) None of these

81. The given figure shows the phases of the Moon. Select the phases of the Moon during which the highest tides are seen.



- (A) d and h (B) f and j
(C) e and g (D) i and k

PRATAPGARH TALENT SEARCH EXAMINATION-2022

82. _____ should be used to make a cooking pot and _____ can be used to make its handle.

- (A) Glass, Iron (B) Rubber, Wood
(C) Aluminium, Wood (D) Iron, Silver

83. A solid can be changed into a liquid by the process of _____.

- (A) Condensation (B) Evaporation
(C) Freezing (D) Melting

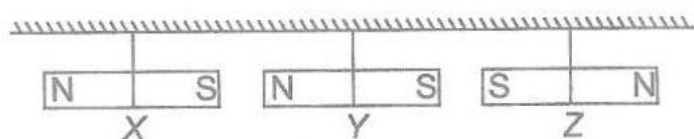
84. Naphthalene balls may reduce in size or disappear due to

- (A) Evaporation (B) Condensation
(C) Sublimation (D) Precipitation

85. Select the activity that is an example of chemical change.

- (A) Melting of ice cream (B) Rusting of iron nails
(C) Making curd from milk (D) Both (B) and (C)

86. What will happen when three bar magnets are hung in the manner as shown below?



- (A) Nothing will happen (B) Magnet Y will turn round and round
(C) Magnet Y will move towards magnet Z (D) Magnet Y will move towards magnet X

87. In which of the following a permanent magnet is used?

- (A) Magnetic door catchers (B) Loudspeakers
(C) Compasses (D) All of these

88. How many north and south poles are present if a magnet is broken into 6 pieces without loss of magnetism?

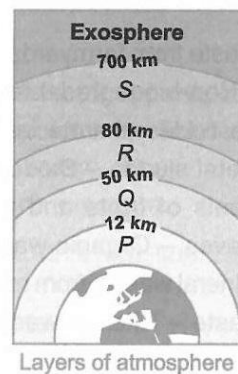
- (A) Six (B) Twelve
(C) Two (D) Zero

89. Which of the following is a correct match?

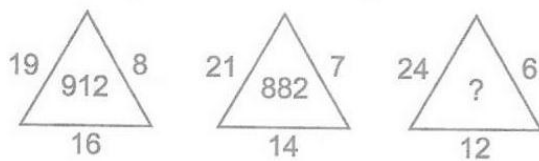
- (A) Waste from farmyards and food courts – Non-biodegradable waste
(B) Pesticides, pharmaceuticals and heavy metal sludge - Biodegradable waste
(C) Peels of fruits and vegetables, tea leaves – Organic waste
(D) Mineral wastes from mining and rubber waste - Kitchen waste

PRATAPGARH TALENT SEARCH EXAMINATION-2022

90. Kanika noticed that her potted plant was not growing healthily. She put few earthworms into the pot. After a few weeks, she noticed that her plants look healthier. What could be the possible reason for this?
- (A) The earthworms ate up the pests in the soil.
 (B) The earthworms helped the plant to take in water.
 (C) The earthworms allowed the plant to make food faster.
 (D) The earthworms increased the air and nutrient content of the soil.
91. Refer to the given figure representing different layers of Earth's atmosphere and select the incorrect statement regarding it.



- (A) Wind, storm and snow are formed in P layer of atmosphere.
 (B) Q is the atmospheric layer where most clouds are formed as, 99% of the water vapours are present in this layer.
 (C) In atmospheric layer R meteors burn up.
 (D) In atmospheric layer S temperature increases with height.
92. Find the missing number, if the same rule is followed in all the three figures.



- (A) 1356 (B) 862
 (C) 1234 (D) 864
93. What is the next term in the given series?



- (A) 962 (B) 385
 (C) 583 (D) 853

PRATAPGARH TALENT SEARCH EXAMINATION-2022

94. A boy introduced a woman as the only daughter of the father of his mother. How is the boy related to the woman?

- (A) Brother (B) Father
(C) Uncle (D) Son

95. How many 5's are there in the following sequence, each of which is immediately preceded by 4 but not immediately followed by 9?

3 5 9 5 4 5 5 3 5 8 4 5 6 7 3 5 7 5 5 4 5 2 4 5 9 0

- (A) 2 (B) 3
(C) 4 (D) 5

96. Find the missing number which will complete the given series.

8, 14, 26, ?, 68, 98

- (A) 32 (B) 44
(C) 52 (D) 48

97. Which of the following best explains why lifting a heavy object with a single fixed pulley and rope makes the task seems easier?

- (A) The direction of the force required to lift the object is changed
(B) The force required to move the object is applied over a greater distance
(C) More work is done while moving the object
(D) Less force is needed to lift the object

98. A clock is started at noon. By 20 minutes past 5 PM on the same day, the angle through which the hour hand has turned is

- (A) 150° (B) 160°
(C) 145° (D) 155°

PRATAPGARH TALENT SEARCH EXAMINATION-2022

99. Match column I (method of separation) with column II (property of the components) and select the correct option from the given codes.

Column I		Column II	
P. Sedimentation	(i)	Solubility	
Q. Sieving	(ii)	Weight of particles	
R. Winnowing	(iii)	Size of particles	
S. Separating funnel	(iv)	Miscibility	

	P	Q	R	S
(A)	(iv)	(ii)	(i)	(ii)
(B)	(i)	(iii)	(ii)	(iv)
(C)	(iii)	(i)	(ii)	(iv)
(D)	(ii)	(iii)	(iv)	(i)

100. Select the incorrect match

Plant		Reproduces by
(A) Fern	-	Spores
(B) Dahlia	-	Stem
(C) Bryophyllum	-	Leaf
(D) Tapioca	-	Root