



# Pinnacle

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### P-SAT 2025

Pinnacle Scholastic Aptitude Test

For Classes 6<sup>th</sup> to 11<sup>th</sup> (Appearing)

## Pinnacle Scholastic Aptitude Test

# SAMPLE TEST PAPER

## Class 6<sup>th</sup>

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# INSTRUCTIONS

**Duration: 1 Hour**

**Maximum Marks: 240**

Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.

Things NOT ALLOWED in EXAM HALL: Blank Paper, clipboard, log table, slide rule, calculator, camera, mobile and any electronic or electrical gadget. If you are carrying any of these, then keep them at a place specified by invigilator at your own responsibility.

## I. General Instructions

1. This Booklet is your question paper. Don't break the seal of booklet until the invigilator instructs to do so.
2. The answer sheet (ORS) is provided to you separately which is a machine readable optical response sheet. You have to mark your answers in the ORS by darkening bubbles as per your answer choice, by using black or blue ball point pen.
3. This question paper contains three sections as follows:
  - a) **Section - A** contains total 10 questions (Q. No. 1 to 10) of Mental Ability.
  - b) **Section - B** contains total 20 questions (Q. No. 11 to 30) of Mathematics.
  - c) **Section - C** contains total 30 questions (Q. No. 31 to 60) under 3 parts, which are Physics, Chemistry, Biology.
4. Rough spaces are provided for rough work inside the question paper. No additional sheets will be provided for rough work.
5. If you are found involved in cheating or disturbing others, then your ORS will be cancelled.

## II. Filling of OMR Sheet

1. Ensure matching of OMR sheet with the Question paper before you start marking your answers on OMR sheet.
2. On OMR sheet, darken the appropriate bubble with black/blue pen for each character of your Enrollment No. and your Name, Test Code and other details at the designated places.
3. Think wisely before darkening bubble as there is negative marking for wrong answer. Answer once marked by pen can't be cancelled.
4. Don't put any stain on ORS and hand it over back properly to the invigilator.

## III. Marking Scheme

1. All the questions of **each Part** have only one correct answer.
2. If darken bubble is RIGHT answer: 4 Marks.
3. If darken bubble is WRONG answer: -1 Marks (Minus One Mark).
4. If no bubble is darkened in any question: No Marks.

Please follow the instructions







JEE MAIN 2024 **99.98** %ile  
 JEE ADV 2024 **958** AIR  
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### JEE MAINS & ADVANCE RESULT 2023

JEE ADV AIR \* **147**  
 JEE ADV AIR \* **172**  
 JEE ADV AIR \* **230**

**99.84** Percentile  
 IIT DELHI  
 Mayank Jindal

**99.86** Percentile  
 IIT BOMBAY  
 Dikshit Singla

**99.90** Percentile  
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JEE ADV AIR <b>1946</b> IIT ROORKEE Chetanya Jindal <b>99.88</b> %ile	JEE ADV AIR <b>3834</b> IIT MANDI Sukhwinder Singh <b>99.51</b> %ile	JEE ADV AIR <b>4079</b> IIT HYDERABAD Harshil Goyal <b>99.46</b> %ile	JEE ADV AIR <b>6008</b> IIT DELHI Disha <b>99.44</b> %ile	JEE ADV AIR <b>7845</b> IIT DDU Priyanka <b>99.85</b> %ile	JEE ADV AIR <b>3353</b> NIT DELHI Paawan Khurana <b>99.75</b> %ile	<b>99.59</b> %ile NIT ALLAHABAD Garima	<b>99.66</b> %ile DTU DELHI Dipinder Kaur
<b>99.61</b> %ile DTU DELHI Jatin Bansal	<b>99.34</b> %ile DTU DELHI Hardeep Singh Jindal	<b>98.81</b> %ile PEC CHD Chakshit	<b>99.45</b> %ile NIT JALANDHAR Yog Garg	<b>97.96</b> %ile PEC CHD Lakshita Gupta	<b>97.11</b> %ile NIT JALANDHAR Rimanshu Gupta	<b>99.85</b> %ile IIT ROPAR Krish Arora	<b>99.85</b> %ile IIT BHU Krish Kumar



### NEET RESULT



<b>636   720</b> GMCH CHD Bhawna	<b>604   720</b> GMC PATIALA Balwinder Singh	<b>599   720</b> GMCH CHD Aurya Arrarwal	<b>698   720</b> GMCH CHD Chhaavi	<b>705   720</b> MAULANA AZAD DELHI Saransh Garg	<b>651   720</b> GMC PATIALA Riya	<b>648   720</b> GMC PATIALA Priyanka
<b>636   720</b> GMCH CHD Bhawna	<b>604   720</b> GMC PATIALA Balwinder Singh	<b>599   720</b> GMCH CHD Aurya Arrarwal	<b>698   720</b> GMCH CHD Chhaavi	<b>665   720</b> AIIMS-BILASPUR Nitish Singla	<b>636   720</b> DMC-LUDHIANA Arshita Aggarwal	<b>661   720</b> AIIMS-BATHINDA Anmoldeep Kaur



# What Makes Pinnacle Unique?

- 1 Best Faculty Team
- 2 Hi-Tech Classrooms
- 3 Customized Study material
- 4 Personal Attention
- 5 Unlimited Doubt Sessions
- 6 Best Testing Methodology



Lecture Recording Lab



Revision Classes & Self Study Zones



Online Testing Lab (CBT)



Smart & AC Classrooms



Objective + Subjective



Student Performance and Analysis Report



Rich Library & Researched Study Modules



Extra Support to weaker students



CCTV Campus



Biometric Attendance

## Classroom Program

### 1 Comprehensive Classroom Lectures

All classes at Pinnacle are conducted by highly qualified and experienced faculty members, mostly IITians. Each chapter is started at the grass root level and is dealt to an extent which is the requirement of competitive examinations, with an aim of enabling the students to develop a comprehensive view of the whole chapter with a thorough understanding.



### Doubt Clearance 2

"If you ask a question, you may appear fool for some time, but if you don't, you'll remain a fool for whole life." System at Pinnacle encourages all students to ask their doubts and questions.

### 3 Regular Tests Online and Offline

As JEE Mains and Advanced have gone completely online and NEET is in the pipeline, we have launched a dedicated online testing platform where students can practise over CBT (Computer Based Tests). The combination of online and offline testing modes based on latest JEE/NEET patterns ensure that students are at par with the recent changes. Students can check their test reports and performance analysis via a unique online login ID. Their results are also communicated to parents via SMS.



### Addressing the Board Exam 4

Pinnacle has a very distinct methodology for preparing the students for competitive examinations while in full synchronization with Board Exams as well. Board level tests are conducted alongside the regular JEE/NEET tests and the copies are graded at very meticulous level by teachers. Students receive methodological tips so as to perform excellent in the board Exams as well.

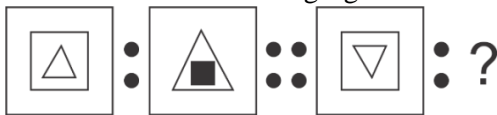
**Section – A  
Mental Ability**

1. Find the number which will replace the ‘?’ mark.

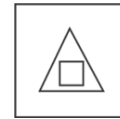
1	$\frac{1}{2}$	$\frac{3}{2}$
2	$\frac{2}{3}$	$\frac{8}{3}$
3	$\frac{3}{4}$	?

- (a)  $\frac{3}{4}$
- (b)  $\frac{2}{3}$
- (c)  $\frac{15}{4}$
- (d)  $\frac{6}{7}$

2. Identify the relationship between given pair of figures and choose the missing figure.



- (a)
- (b)
- (c)
- (d)

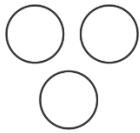


- 3. Pointing to a photograph Yashika says, "He is the son of the only son of my grandfather." How is the man in the photograph related to Yashika?
  - (a) Brother
  - (b) Uncle
  - (c) Cousin
  - (d) Data inadequate
- 4. Sonali drove her car 20 km northwards. Then she turned left and drove for 30 km. she then turned left again and drove yet another 20 km. Again she turned left and drove her car 45 km. How far she will be now from the initial position?
  - (a) 10 km
  - (b) 20 km
  - (c) 15 km
  - (d) 25 km

5. Which of the following diagram indicates the best relation amongst travellers, train and bus?

- (a)
- (b)
- (c)
- (d)

*Space for Rough Work*



6. Arrange the given words in a meaningful sequence.

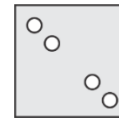
1. Wall 2. Clay 3. House 4. Room 5. Bricks

Bricks

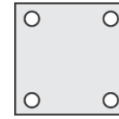
- (a) 5, 2, 1, 4, 3
  - (b) 2, 5, 4, 1, 3
  - (c) 2, 5, 1, 4, 3
  - (d) 1, 2, 3, 4, 5
7. The water image of which letter of the English alphabet is the same as the letter itself?
- (a) 15<sup>th</sup> letter
  - (b) 14<sup>th</sup> letter
  - (c) 19<sup>th</sup> letter
  - (d) 26<sup>th</sup> letter
8. There are three forms X, Y and Z of a sheet of paper. Figures X and Y respectively show the two consecutive folds of the sheet. And the figure Z shows punch on the folded sheet. Choose one figure from the four options (a), (b), (c) and (d) that is similar to the unfolded form of the sheet Z.



- (a)
- (b)
- (c)



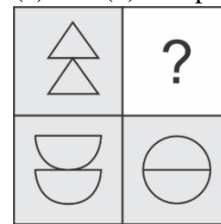
(d)



9. If in a certain code language, POPULAR is coded as QPQVMBS, then which word would be coded as GBNPVT?

- (a) FARMER
- (b) FAMOUS
- (c) FRAMES
- (d) FARMES

10. Find out which of the answer figures (a), (b), (c) and (d) completes the given figure matrix.

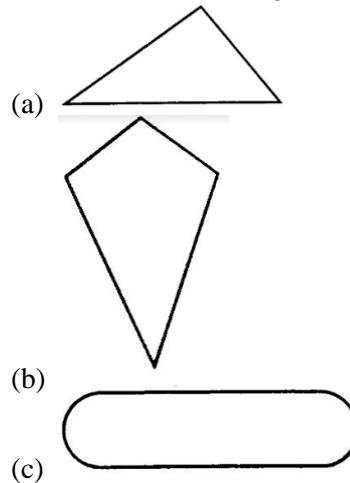


- (a)
- (b)
- (c)
- (d)

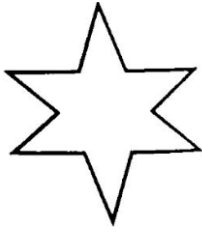
Space for Rough Work

## Section - B Mathematics

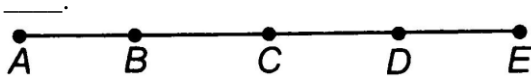
11. The distance between Akash's school and his home is 2 km 385 m. Every day, he walks to and from the school. Calculate the total distance covered by him from Monday to Friday.
- 23 km 870 m
  - 23 km 850 m
  - 21 km 860 m
  - 20 km 850 m
12. The difference between the place values of 8 in the greatest and the smallest 4 – digit numbers formed by using the digits 3, 8, 0, 5 (each digit used only once) is \_\_\_\_.
- 8998
  - 6992
  - 7992
  - 5998
13. If a and b are two whole numbers, then commutative law is applicable on subtraction if and only if \_\_\_\_.
- $a = b$
  - $a \neq b$
  - $a > b$
  - $a < b$
14. a gardener has 389 saplings to be planted in 16 rows. How many saplings will he not be able to plant if he can accommodate only 24 saplings in each of the 16 rows?
- 9
  - 5
  - 15
  - 12
15. The smallest number which when divided by 20, 25, 35 and 40 leaves a remainder of 14, 19, 29 and 34 respectively, is \_\_\_\_.
- 1394
  - 1404
  - 1664
  - 1406
16. Three boys steps off together from the same spot. Their steps measures 63 cm, 70 cm and 77 cm, respectively. what is the minimum distance each should cover so that all can cover distance in complete steps?
- 6930 cm
  - 6000 cm
  - 7000 cm
  - 6520 cm
17. Which of the following is not a polygon?



*Space for Rough Work*

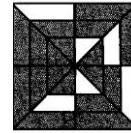


(d)  
18. Number of line segments in the given figure is \_\_\_\_\_.



- (a) 5
  - (b) 10
  - (c) 15
  - (d) 20
19. Find the sum of  $-23, 18, -26$  and  $-57$ .
- (a)  $-40$
  - (b)  $-88$
  - (c)  $-60$
  - (d)  $-20$
20. Subtract the sum of  $-125$  and  $120$  from the difference  $(-160 - (-240))$ .
- (a)  $-85$
  - (b)  $80$
  - (c)  $5$
  - (d)  $85$
21. State 'T' for true and 'F' for false.
- i. Since,  $5 > 3$ . Therefore,  $-5 > -3$ .
  - ii. The difference between an integer and its additive inverse is always even.
  - iii. The sum of three different integers can never be zero.
  - iv. All whole numbers are integers.
- |     |   |    |     |    |
|-----|---|----|-----|----|
|     | i | ii | iii | iv |
| (a) | T | F  | T   | F  |
| (b) | F | F  | T   | T  |
| (c) | F | T  | F   | T  |
| (d) | T | T  | F   | F  |

22. How many one – fourths need to be added to  $2\frac{1}{4}$  to make 5?
- (a) 11
  - (b) 18
  - (c) 9
  - (d) 2
23. Karan spent half of his pocket money to buy a pair of shoes. He spent half the remaining for a book. He also spent half the remaining to buy a study table. He was left with Rs.350. With how much money he started his shopping?
- (a) Rs. 4000
  - (b) Rs. 3000
  - (c) Rs. 2800
  - (d) Rs. 1080
24. What fraction of the given figure is shaded?



- (a)  $\frac{7}{8}$
  - (b)  $\frac{5}{8}$
  - (c)  $\frac{1}{2}$
  - (d)  $\frac{3}{4}$
25. If 0.75 of a number is 1200, then what is  $\frac{5}{8}$  of that number?
- (a) 1000
  - (b) 1060
  - (c) 880
  - (d) 8002

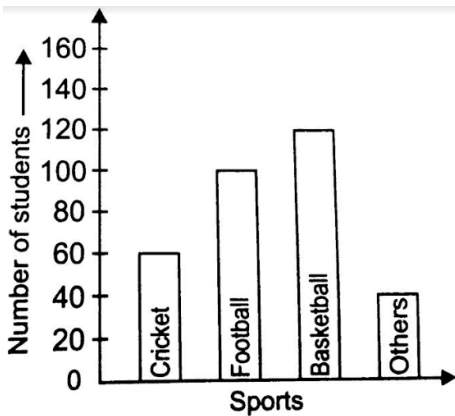
**Space for Rough Work**



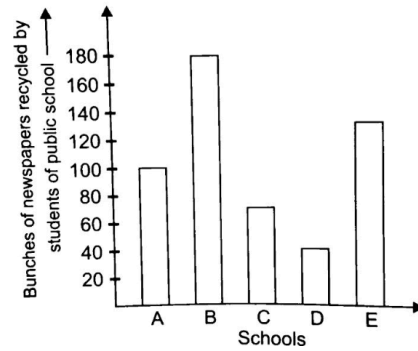
26. State 'T' for true and 'F' for false.
- In 16.532, the digit 3 is in thousandths place.
  - Every fraction or a decimal number can be represented on a number line.
  - The lowest form of 0.35 is  $\frac{7}{20}$ .

- |     |   |    |     |
|-----|---|----|-----|
|     | i | ii | iii |
| (a) | T | T  | T   |
| (b) | T | F  | F   |
| (c) | F | T  | T   |
| (d) | F | T  | F   |

27. Jogdish surveyed the students of his school to determine their favourite sports. The results are shown in the given bar graph. How many more students like Basketball than Cricket?



- 60
  - 120
  - 20
  - 40
28. Study the bar graph and state whether the given statements is true or false.



- P. C recycled more newspapers than D.  
 Q. B recycled 80 bunches of newspapers more than A.  
 R. Five hundred bunches of newspapers were recycled in all.  
 S. The ascending order of the schools according to the number of newspapers recycled by them is D, C, A, B, E.

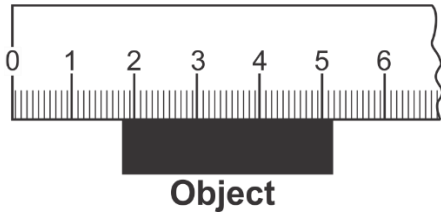
- |     |       |       |       |       |
|-----|-------|-------|-------|-------|
|     | P     | Q     | R     | S     |
| (a) | True  | True  | False | False |
| (b) | True  | True  | False | True  |
| (c) | False | True  | False | True  |
| (d) | False | False | True  | True  |

29. The weights of three iron rods are in the ratio 3 : 7 : 10. The weight of the heaviest one is 2 kg 650 g. Find the total weight of the three iron rods.
- 4 kg 700 g
  - 5 kg 300 g
  - 7 kg 900 g
  - 4 kg 900 g
30. Raghav constructed an angle of  $150^\circ$  and trisected it. Measure of two angles taken together will be \_\_\_\_\_.
- $120^\circ$
  - $100^\circ$
  - $60^\circ$
  - $50^\circ$

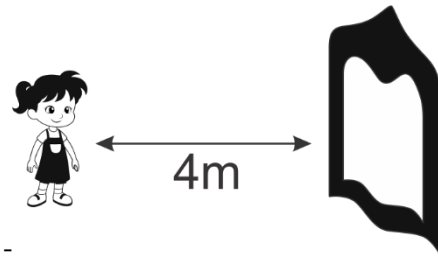
Space for Rough Work

**Section – C  
Science**

31. Find the length of the object in the figure given below.



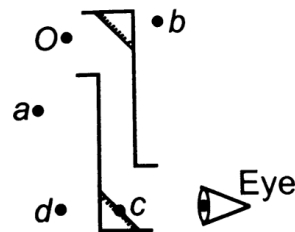
- (a) 3.4 units
  - (b) 3.2 units
  - (c) 3.5 units
  - (d) 3.3 units
32. What fraction of a metre is 1 mm?
- (a) Thousand
  - (b) Hundred
  - (c) Thousandth
  - (d) Hundredth
33. The length of a metre is divided into 100 equal parts. What will be the value of each part?
- (a) One decimeter
  - (b) One millimeter
  - (c) One centimeter
  - (d) One kilometer
34. A girls is 4 m away from the plane mirror. If she moves few steps closer to the mirror, what will happen to the size of images in the mirror? Consider that she can see her complete image in both the cases.



- (a) The size of image will decrease
  - (b) The size of image will increase
  - (c) The size of image will be the same
  - (d) Cannot say
35. Choose the correct image of shown word, formed by plane mirror.



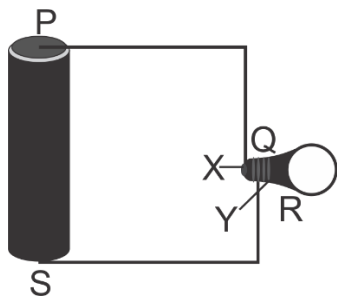
- (a) NOITAGVATION
  - (b) NOITAGAPORP
  - (c) NOITAGAPORP
  - (d) NOITVAGATION
36. The diagram show an object O viewed using two mirrors. A person looks into the mirrors as shown.



At which position is the image of O seen?

*Space for Rough Work*

- (a) a
  - (b) b
  - (c) c
  - (d) d
37. Look at the given figure. It consists of a cell, a bulb with the two terminals X and Y and wires with ends P and Q; and S and R. The direction of current will be

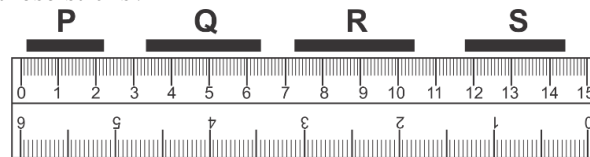


- (a) PQRS
  - (b) SRQP
  - (c) PRQS
  - (d) SQRP
38. What is the function of the component shown here?

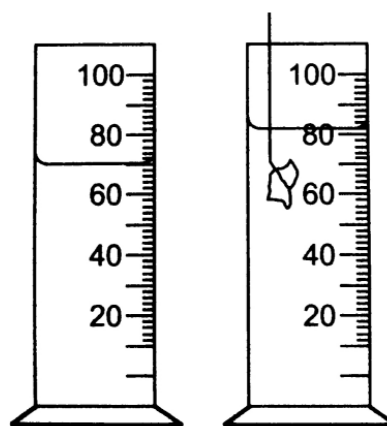


- (a) It is used to measure voltage of the cell
- (b) It provides the energy for the bulb to glow
- (c) It can break a circuit by interrupting the current or diverting it from one conductor to another
- (d) It measures the current in a circuit.

39. Four pieces of wooden sticks P, Q, R and S are placed along the length of 15 cm long scales as shown in figure. What is the average length of these sticks?



- (a) 2.0 cm
  - (b) 2.5 cm
  - (c) 2.7 cm
  - (d) 2.9 cm
40. Given figure shows measuring cylinder (in cm<sup>3</sup>) before and after the immersion of an irregular solid object. The volume of the object is



- (a) 82 cm<sup>3</sup>
  - (b) 12 cm<sup>3</sup>
  - (c) 30 cm<sup>3</sup>
  - (d) 18 cm<sup>3</sup>
41. Synthetic fibres are obtained from
- (a) Plant sources
  - (b) Animal sources
  - (c) Both (a) and (b)
  - (d) None of these

*Space for Rough Work*



42. The use of charkha for weaving of cotton was popularized by Mahatma Gandhi. This was done to encourage people to wear

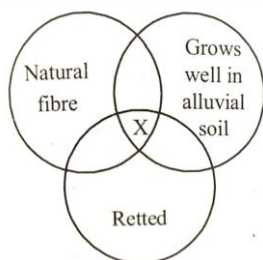
- (a) Imported cloth
- (b) Clothes made of home spun yarn
- (c) Both (a) and (b)
- (d) None of these

43. Complete the given correlation

Silk: Cocoon, Wool:

- (a) Hair of rabbit
- (b) Cotton plant
- (c) Fleece of sheep
- (d) Jute of hemp

44. Identify X in the given Venn diagram.



- (a) Silk
- (b) Wool
- (c) Nylon
- (d) Jute

45. Study the given table showing some daily used items which can be made from more than one material.

Items	Wood	Plastic	Metal	Glass
(i) Cooking pot	✓	✓	X	X
(ii) Storage container	✓	✓	✓	✓
(iii) LPG cylinder	✓	✓	X	✓
(iv) Tea cup	✓	✓	✓	X

Which of these are incorrect?

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

46. Mohan is able to bend the rod because it is



- (a) Light
- (b) Hard
- (c) Water proof
- (d) Flexible

47. Saturated solution is

- (a) A solution which can dissolve more of a solute at a given temperature
- (b) A solution which cannot dissolve more of solute at a given temperature
- (c) A solution which can dissolve solute at a lower temperature
- (d) None of these

48. Which one is used to separate a mixture of oil and water?

- (a) Sieving
- (b) Decantation
- (c) Filtration
- (d) Evaporation




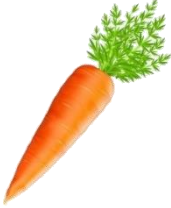
49. Which type of change takes place when a rolled roti is baked on tawa?

- (a) Physical change
- (b) Permanent change
- (c) Periodic change
- (d) None of these

50. A chemical change is one which occurs with

- (a) The formation of new substances
- (b) The evolution or absorption of energy
- (c) Both the above
- (d) None of these

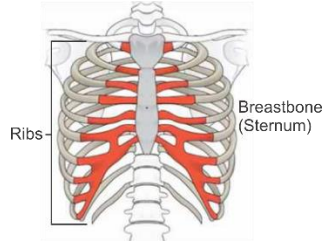
**Space for Rough Work**

51. What is added to milk to set curd?  
(a) Bacteria  
(b) Virus  
(c) Fungi  
(d) Lemon
52. When you are eating sugarcane, you are actually eating  
(a) Fruit of sugarcane  
(b) Root of sugarcane  
(c) Stem of sugarcane  
(d) Grains of sugarcane
53. Which of the following is a seed containing stored food?
- (a) Mango 
- (b) Corn 
- (c) Apple 
- (d) Carrot 
54. Repeated washings of rice may result in lost of  
(a) Vitamins  
(b) Minerals  
(c) Both vitamins and minerals  
(d) Neither of vitamins nor of minerals
55. People who suffer from \_\_\_\_\_ may have too much sugar in their blood  
(a) Diabetes  
(b) High blood pressure  
(c) Obesity  
(d) Rickets
56. Choose an incorrect match
- | Minerals       | Deficiency disease |
|----------------|--------------------|
| (a) Calcium    | Scurvy             |
| (b) Iron       | Anaemia            |
| (c) Phosphorus | Rickets            |
| (d) Iodine     | Goitre             |
57. The body joints are classified into various types on the basis of  
(a) Nature of joints  
(b) Direction of movement allowed by them  
(c) Part of body where they are found  
(d) Both a and b
58. Number of bones in human body is  
(a) 106  
(b) 306  
(c) 206  
(d) 406
59. Which part of the human skeleton retains cartilage even in an adult?  
(a) Jaw  
(b) Ear  
(c) Nose  
(d) All of these

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*Space for Rough Work*

60. The part of the human skeleton shown in figure protects which of the following:



- (a) Heart
- (b) Lungs
- (c) Wind pipe
- (d) All of these

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*Space for Rough Work*



**ANSWER KEY**

1	c	21	c	41	d
2	c	22	a	42	b
3	a	23	c	43	c
4	c	24	d	44	d
5	a	25	a	45	b
6	c	26	c	46	d
7	a	27	b	47	b
8	c	28	a	48	b
9	b	29	b	49	b
10	b	30	d	50	c
11	b	31	b	51	a
12	c	32	c	52	c
13	b	33	c	53	b
14	b	34	c	54	c
15	a	35	b	55	a
16	a	36	d	56	a
17	c	37	a	57	d
18	b	38	c	58	c
19	b	39	c	59	a
20	d	40	b	60	d

*Space for Rough Work*