

About the Book

This book is specially designed for students preparing for the Jawahar Navodaya Vidyalaya (JNV) Class 6th Entrance Examination 2027. It is a complete, exam-oriented Solved Papers Book, prepared strictly as per the actual examination pattern conducted by Navodaya Vidyalaya Samiti, helping students practice in a real exam-like environment and build strong confidence.

Key Features of the Book:

- This book provides balanced and effective practice for all three sections of the exam: Mental Ability Test (MAT), Arithmetic Test and Language Test, through original previous year question papers.
- It includes 12 fully solved original JNV Class 6th entrance exam papers from 2018 to 2026, including the latest solved paper of 11 April, 2026, giving students exposure to the most recent exam trends.
- Each paper is presented with clear, step-by-step and easy-to-understand solutions, enabling students to understand concepts better and learn from their mistakes.
- OMR sheets are also included, allowing students to practice in a real examination format and improve their time management skills.
- All solved papers follow the actual exam pattern and difficulty level, helping students understand the type of questions asked and the overall structure of the JNV Class 6th entrance exam.
- The book is designed to improve speed, accuracy and self-evaluation, making it an ideal tool for final-stage preparation. With simple language and clear explanations, this book is completely suitable and easy to understand for Class 6th aspirants.

Through regular practice with this solved papers book, students can reduce exam fear, strengthen their preparation and move one step closer to success in the JNV Class 6th Entrance Examination 2027.

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Conducted By Navodaya Vidyalaya Samiti

JAWAHAR NAVODAYA VIDYALAYA

(Class 6th)

Entrance Exam 2027

List of Papers

YEAR	NO. OF PAPERS	YEAR	NO. OF PAPERS
11 April, 2026 (Hilly Areas)	1	2026	1
13 Dec, 2025	1	2023	1
12 April, 2025 (Hilly Areas)	1	2022	1
18 Jan, 2025	1	2021	1
20 Jan, 2024	1	2020	1
4 Nov, 2023 (Hilly Areas)	1	2019	1
		2018	1

12

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Exam Information

Important Information

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- Solved Paper Exam Date : 18-01-2025 46-60
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	<p>Sainik School (Mock Papers)</p> 		<p>Jawahar Navodaya Vidyalaya (Mock Papers)</p> 		<p>Rashtriya Military School (Mock Papers)</p> 
	<p>Jawahar Navodaya Vidyalaya (Guide book)</p> 		<p>Rashtriya Military School (Guide book)</p> 		<p>Sainik School (Guide book)</p> 

Jawahar Navodaya Vidyalaya Exam, 2026

Solved Paper

Exam Date : 11-04-2026

Section-I

Mental Ability Test

Odd Man Out

Direction (Q. No 1 to 4)

Four figures (A), (B), (C) and (D) have been given in each question. Of these four figures, three figures are similar in some way and one figure is different. Select the figure which is different.

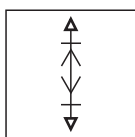
- (A) (B) (C) (D)
- (A) (B) (C) (D)
- (A) (B) (C) (D)
- (A) (B) (C) (D)

Figure Matching

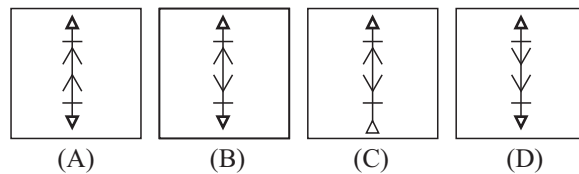
Direction (Q. No 5 to 8)

Every question figure is given and four answer figures marked (A), (B), (C) and (D) are given. Select the answer figure which is exactly the same the question figure.

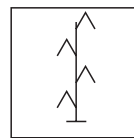
5. Question Figure



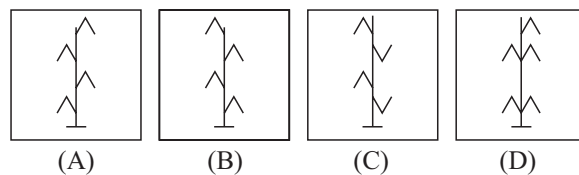
Answer Figures



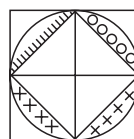
6. Question Figure



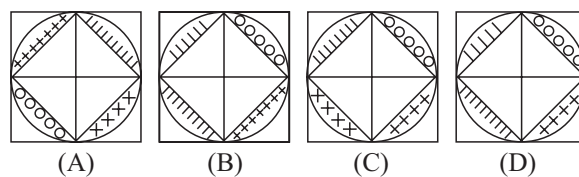
Answer Figures



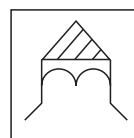
7. Question Figure



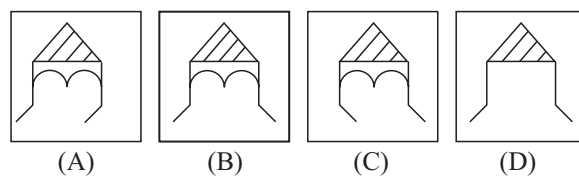
Answer Figures



8. Question Figure



Answer Figures

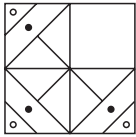


Pattern Completion

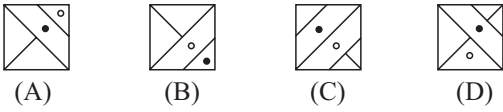
Direction (Q. No. 9 to 12)

There is a question figure and a part of which is missing. Observe the answer figures (A), (B), (C) and (D) on the below side and find out the answer figure which, without changing the direction, fits in the missing part of the question figure in order to complete the pattern in the question figure.

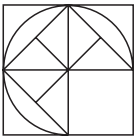
9. Question Figure



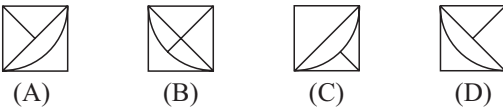
Answer Figures



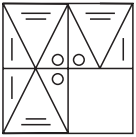
10. Question Figure



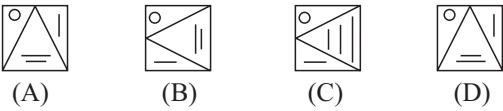
Answer Figures



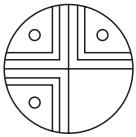
11. Question Figure



Answer Figures



12. Question Figure



Answer Figures

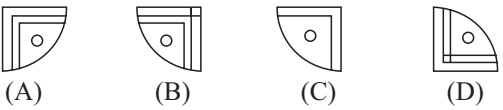
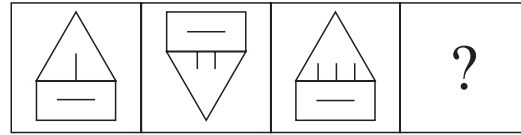


Figure Series Completion

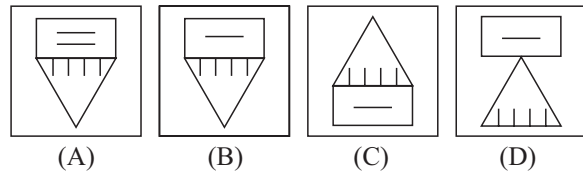
Direction (Q. No 13 to 16)

There are three question figures and the space for the fourth figure is left blank. The question figures are in a series. Find out one figure from among the answer figures given on the below side which occupies the blank space for the fourth figure and completes the series.

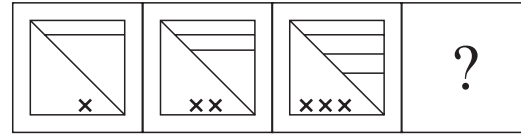
13. Question Figures



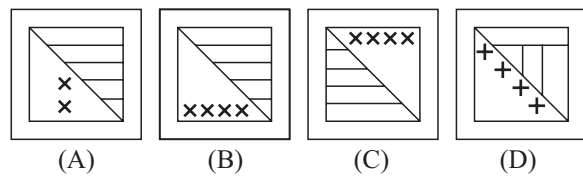
Answer Figures



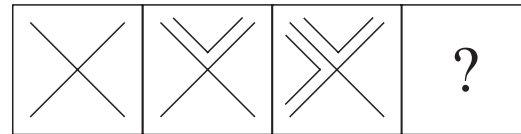
14. Question Figures



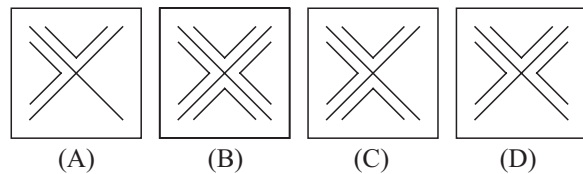
Answer Figures



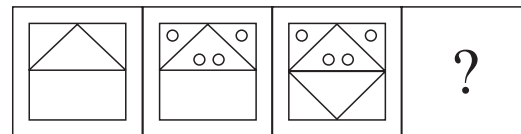
15. Question Figures



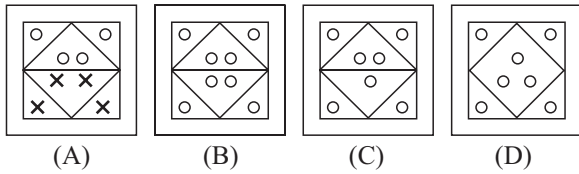
Answer Figures



16. Question Figures



Answer Figures

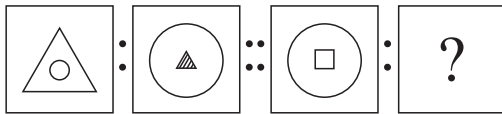


Analogy

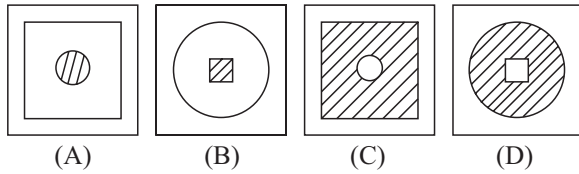
Direction (Q. No. 17 to 20)

There are two sets of two question figures each. The second set has an interrogation mark (?). There exists a relationship between the first two question figures. Similar relationship should exist between the third and the fourth question figure. Select one of the answer figures which replaces the mark of interrogation.

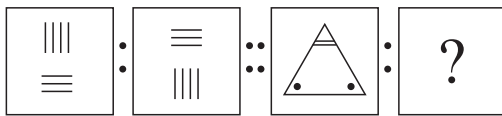
17. Question Figures



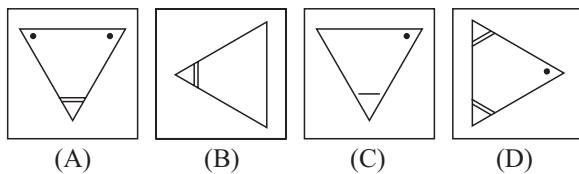
Answer Figures



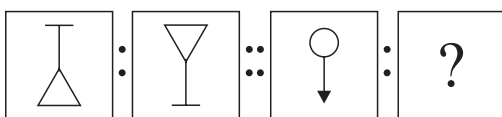
18. Question Figures



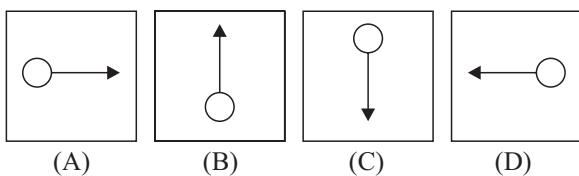
Answer Figures



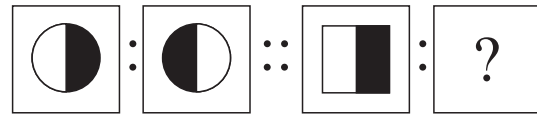
19. Question Figures



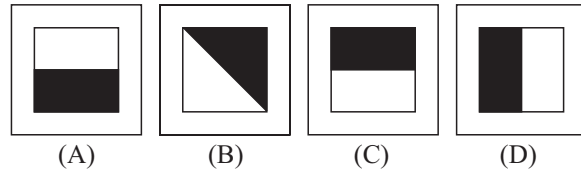
Answer Figures



20. Question Figures



Answer Figures

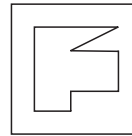


Geometrical Figure (Triangle, Square, Circle)

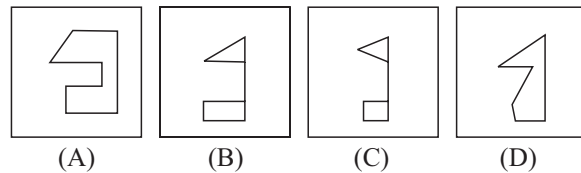
Direction (Q. No. 21 to 24)

One part of a geometrical figure (Triangle, Square, Circle) is on the below side as question figures and the other one is among the four answer figures (A), (B), (C) and (D). Find the figure that completes the geometrical figure.

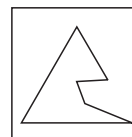
21. Question Figure



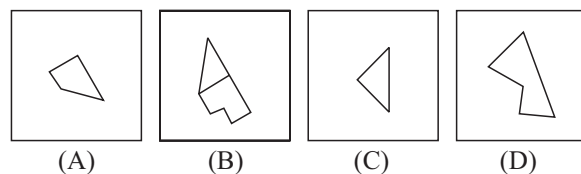
Answer Figures



22. Question Figure



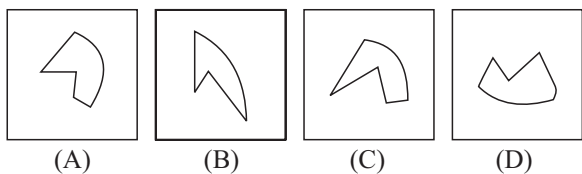
Answer Figures



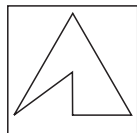
23. Question Figure



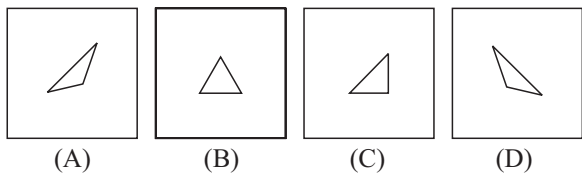
Answer Figures



24. Question Figure



Answer Figures

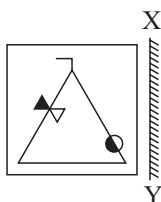


Mirror Image

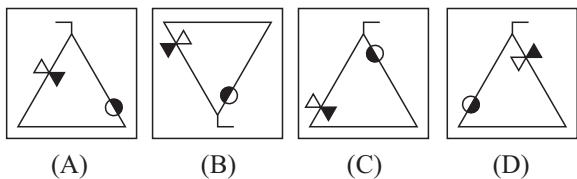
Direction (Q. No 25 to 28)

There is a question figures on the below side and four answer figures marked (A), (B), (C) and (D) are given. Select the answer figure which is exactly the mirror image of the question figure when the mirror is held at XY.

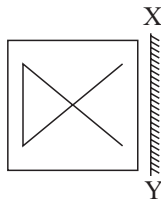
25. Question Figure



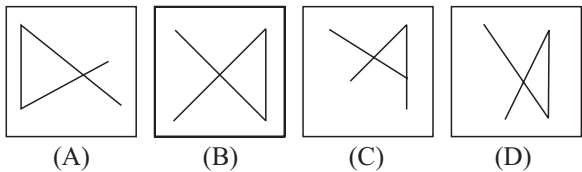
Answer Figures



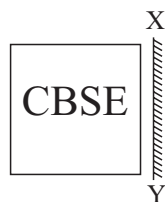
26. Question Figure



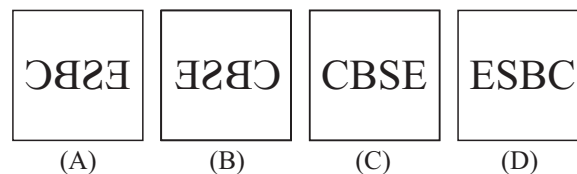
Answer Figures



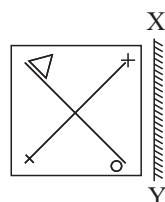
27. Question Figure



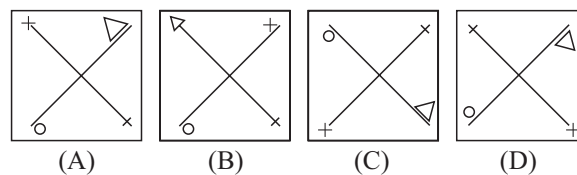
Answer Figures



28. Question Figure



Answer Figures

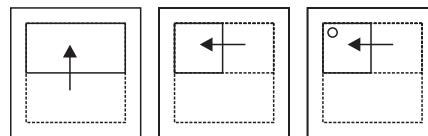


Punched Hole Pattern Folding/Unfolding

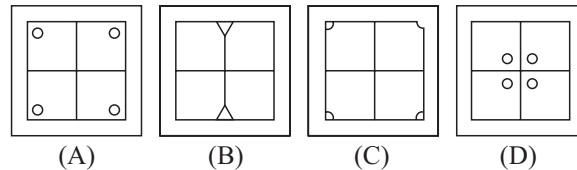
Direction (Q. No 29 to 32)

A piece of paper is folded and punched as shown in the question figures on the below side and four answer figures marked (A), (B), (C) and (D) are given. Select the answer figure which indicates how the paper will appear when opened (unfolded).

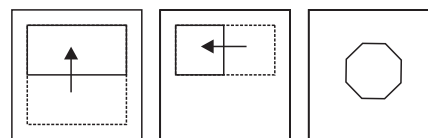
29. Question Figures



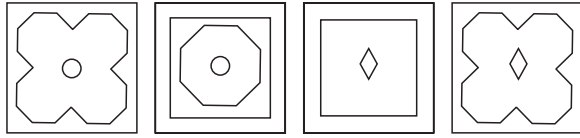
Answer Figures



30. Question Figures

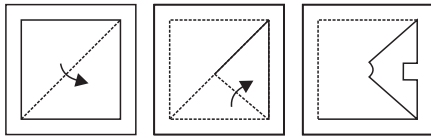


Answer Figures

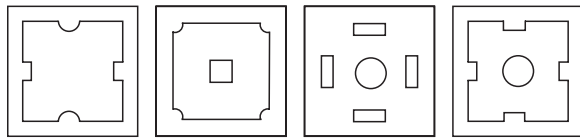


(A) (B) (C) (D)

31. Question Figures

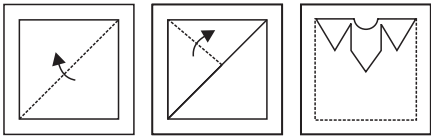


Answer Figures

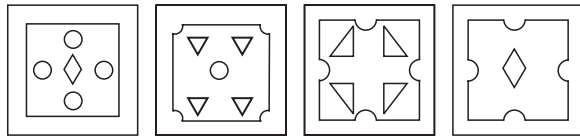


(A) (B) (C) (D)

32. Question Figures



Answer Figures



(A) (B) (C) (D)

Figure Visualization

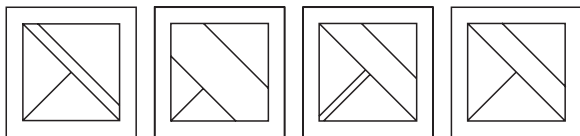
Direction (Q. No. 33 to 36)

Every question figures is given on the below side and four answer figures marked (A), (B), (C) and (D) are given. Select the answer figure which can be formed from the cut-out pieces given in the question figure.

33. Question Figure

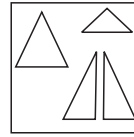


Answer Figures

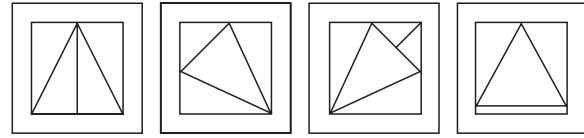


(A) (B) (C) (D)

34. Question Figure

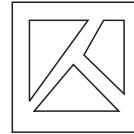


Answer Figures

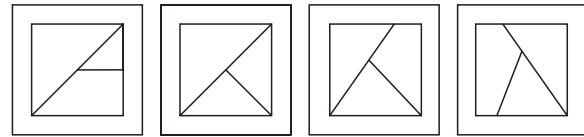


(A) (B) (C) (D)

35. Question Figure

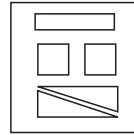


Answer Figures

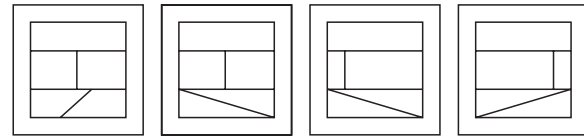


(A) (B) (C) (D)

36. Question Figure



Answer Figures



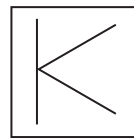
(A) (B) (C) (D)

Embedded Figures

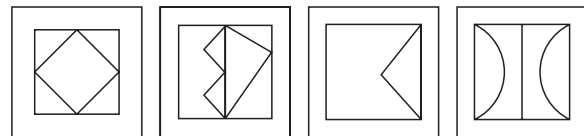
Direction (Q. No. 37 to 40)

Every question figures is given and four answer figures marked (A), (B), (C) and (D) are given. Select the answer figure in which the question figure is hidden/embedded.

37. Question Figure

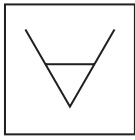


Answer Figures

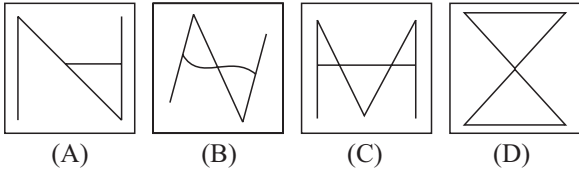


(A) (B) (C) (D)

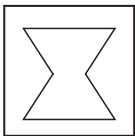
38. Question Figure



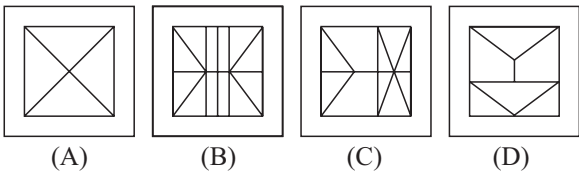
Answer Figures



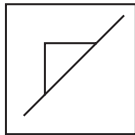
39. Question Figure



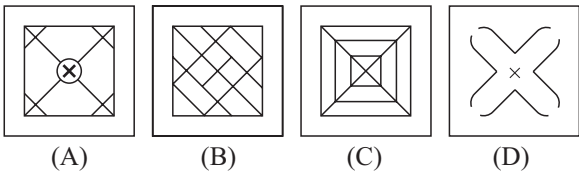
Answer Figures



40. Question Figure



Answer Figures



Section-II

Arithmetic Test

Number and Numeric System

41. The sum of five numbers is 255. If the sum of the first three numbers is 126 and the sum of the last three numbers is 177, then the third number is :
 (A) 47 (B) 48 (C) 50 (D) 51
42. Numbers having more than two factors are called :
 (A) Odd numbers (B) Even numbers
 (C) Prime numbers (D) Composite numbers
43. On dividing the greatest 6-digit number by the greatest 3-digit number, we get :
 (A) 1100 (B) 1010 (C) 1001 (D) 1009
44. The difference between the greatest and the smallest 5-digit number using five different digits is :
 (A) 97531 (B) 89999 (C) 88531 (D) 86420

45. The number of all 3-digit natural numbers is :

- (A) 899 (B) 900 (C) 901 (D) 999

46. The sum of the two digits of a 2-digit number is 14 and the difference of the two digits is 2. The product of the two digits is :

- (A) 56 (B) 48 (C) 45 (D) 36

Four Fundamental Operations on Whole Number

47. The difference of two numbers is $\frac{1}{9}$ of their sum. If their sum is 45, then the lowest common multiple of the two numbers is :

- (A) 225 (B) 200 (C) 150 (D) 100

Conversion of Fractions to Decimals and Vice-Versa

48. $\frac{15}{240}$ expressed in decimals is :

- (A) 0.0562 (B) 0.0652 (C) 0.6250 (D) 0.0625

49. On simplifying $6 + \frac{9}{10} + \frac{19}{100} + \frac{19}{1000}$, we get (in decimal form):

- (A) 7.109 (B) 6.490 (C) 7.990 (D) 8.109

Fractional Numbers Addition and Subtraction of Like Fractions and Multiplication

50. Three-fourths of one-fifth of a number is 60. The number is :
 (A) 300 (B) 400 (C) 450 (D) 1200

51. The salary of a worker is first increased by $\frac{1}{20}$ of his salary

and then next year it is decreased by $\frac{1}{20}$ of his salary. What is the change in his salary, if the original salary was ₹ 4000 ?

- (A) No change (B) ₹ 100 decrease
 (C) ₹ 10 increase (D) ₹ 10 decrease

52. The product

$\left(1 + \frac{1}{2}\right)\left(1 + \frac{1}{3}\right)\left(1 + \frac{1}{4}\right)\left(1 + \frac{1}{5}\right) \dots \dots \left(1 + \frac{1}{150}\right)$ is equal to :

- (A) $65\frac{1}{2}$ (B) $50\frac{1}{2}$ (C) 105 (D) $75\frac{1}{2}$

Simplification of Numerical Expressions

53. Simplification of $100 - \{(7 \text{ of } 8 + 4) \div 5\}$ gives :

- (A) 78 (B) 88 (C) 92 (D) 96

Measurement of Length, Mass, Capacity, Time, Money etc.

54. Seven equal packets of biscuits have a total weight of 5 kg 628 g. The weight of one packet is :

- (A) 840 g (B) 804 g (C) 84 g (D) 814 g

55. A 600 m long train at a speed of 60 km/hr. passes through a platform 1400 m long. The time taken by the train to pass through the platform is :
- (A) 1 minute (B) 2 minutes
(C) 3 minutes (D) 5 minutes
56. 22 yards expressed in metres is: (Given : 1 yard (0.914 m))
- (A) 20.108 m (B) 2.0108 m
(C) 19.108 m (D) 19.10108 m
57. 25 mL of milk is expressed in litres as :
- (A) 0.25 L (B) 0.025 L (C) 0.0025 L (D) 2.5 L

Profit and Loss

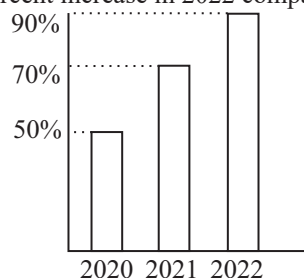
58. By selling a watch for ₹ 1440 a man loses 160. At what price should he sell it in order to gain ₹ 240 ?
- (A) ₹ 1821.60 (B) ₹ 1800 (C) ₹ 1840 (D) ₹ 1880

Types of Angle and Its Simple Application

59. If an angle is 20° more than its complement, then the measure of the angle is :
- (A) 100° (B) 45° (C) 55° (D) 35°

Data Analysis Using Bar Diagram, Graph and Line Chart

60. The school result for three years is shown in the bar chart. What is the percent increase in 2022 compared to 2020 ?



- (A) 90% (B) 40% (C) 20% (D) 50%

Section-III

Language Test

Comprehension (Unseen Passage)

Direction (Q. No. 61 to 80)

There are four passages in this Section. Each passage is followed by five questions. Read each passage carefully and answer the questions that follow. For each question, four probable answers as (A), (B), (C) and (D) are given. Only one out of these is correct. Choose the correct answer and darken the circle in the OMR Answer Sheet against the number corresponding to the question.

Passage-1

Farmers in Krishna district in Andhra Pradesh are using music to reap rich harvests. They call it 'sonic treatment'. All that a farmer does is hang a tape recorder above the crop using a bamboo pole and expose the crop to music for half an hour twice a day. Sugarcane yields have increased by 6 to 8 tons per acre after the 'sonic treatment' which has resulted in an additional income

for the farmers. Using these principles and experiments with various music forms, it was discovered that instrumental music promotes maximum growth in sugarcane. The company, 'Sugar Industries', started distributing free music cassettes to the farmers and the results were very rewarding.

61. "Sonic treatment" is good for _____.
- (A) sugarcane (B) bamboo
(C) farmers (D) all crops
62. "Sonic treatment" is using music to _____.
- (A) increase the yield of crops (B) entertain the farmers
(C) increase money (D) give a boost to industry
63. How often was the 'sonic treatment' given to crops ?
- (A) Twice a week (B) Once a day
(C) Twice a day (D) Once a week
64. The kind of music most effective in 'sonic treatment' was _____.
- (A) film songs (B) classical
(C) instrumental (D) vocal
65. The company, Sugar Industries, promoted 'sonic treatment' by _____.
- (A) experimenting on different kinds of music
(B) hanging a tape recorder on a bamboo pole
(C) using the theory of music
(D) gifting free music cassettes to the farmers

Passage-2

Do you know that about 3000 years ago, the Egyptians invented a fine way of writing. Pictures were used to tell a story or pass on an information. These pictures showed a common object. These pictures were also very simple. These became symbols or signs. This early Egyptian sign writing is called 'Hieroglyphics'. This word means 'sacred writing' because Hieroglyphics were first used in tombs, temples and public monuments.

66. The Egyptian form of writing is named _____.
- (A) sacred writing (B) pictures
(C) hieroglyphics (D) symbols and signs
67. It was 'sacred writing' because _____.
- (A) it used pictures
(B) it was first used in temples, tombs and public monuments
(C) the pictures tell a story
(D) it had symbols and signs
68. Which of the following is not similar in meaning to the word 'Invent' ?
- (A) Create (B) Develop
(C) Design (D) Destroy
69. How were the pictures used in the Egyptian way of writing ?
- (A) They became symbols or signs
(B) They told a story or passed information
(C) They showed the common objects
(D) They became artful writing

70. Choose the opposite in meaning to the word 'Public' :
- (A) Known (B) Common
(C) General (D) Private

Passage-3

Vegetarianism promotes a natural way of life. But despite its implicit message of universal love and non-violence, it has not spread much. This may be because it usually is an inward-looking habit and is best cultivated in the mind by labour and study.

Leading a vegetarian way of life helps the animal kingdom to coexist with man. The animals supply milk, manure and energy. This has been central to the Indian culture for thousands of years. A vegetarian lifestyle is natural and multifaceted and helps in self-preservation in a healthy way.

In India, a vegetarian is usually a lacto-vegetarian. In the western world, vegetarians are subdivided as "vegans" (pure vegetarians who do not take any food coming from animal kingdom), lacto-vegetarians, who use dairy products of the animal kingdom and lacto-ova-vegetarians. The last category includes eggs, in addition to dairy products.

71. People who include eggs along with dairy products in their meals are _____.
- (A) vegans (B) lacto-vegetarians
(C) lacto-ova-vegetarians (D) pure vegetarians
72. Choose the correct option which can replace the underlined word in the given sentence. 'This may be because it usually is an inward looking habit and is best cultivated in the mind'.
- (A) To improve by labour and study
(B) To grow vegetables
(C) To loosen or break up soil
(D) To adopt agriculture as a profession
73. Complete the sentence with the correct form of the word.
The passage _____ vegetarianism and discusses different kinds of vegetarians in the world.
- (A) is promoting (B) promoted
(C) promotes (D) must promote
74. State the meaning of the underlined word in the given sentence.
'A vegetarian lifestyle is natural and multifaceted and helps self-preservation in a healthy way.'
- (A) Having different faces (B) Has different features
(C) Is extraordinary (D) Multitasking
75. Which of the following is similar in meaning to the word 'implicit' ?
- (A) explicit (B) direct
(C) suggestive (D) inspired

Passage-4

Success comes easily to Ma. When she was my age, she was already studying medicine and taking part in athletics and playing basketball. Anybody would name anything and it was done by her and done well. After she qualified, she married and practised medicine until Dad's floundering pharmaceutical company almost collapsed. Then she took over the company and has never looked back. Last November, she was named 'Business Woman' of the year and I know she did it all alone.

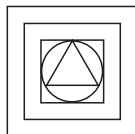
76. Success comes _____ to Ma.
- (A) hardly (B) laboriously
(C) effortlessly (D) with difficulty
77. Everything was done by _____ and done _____.
- (A) them, fast (B) me, well
(C) him, badly (D) her, well
78. Once, Dad's company started _____ and almost collapsed.
- (A) gliding (B) sliding
(C) breezing (D) struggling
79. Which part of speech is the word "practised" ?
- (A) Noun (B) Verb
(C) Adverb (D) Adjective
80. Choose the opposite in meaning to the word "Collapse".
- (A) Rejuvenate (B) Fatigue
(C) Exhaust (D) Tired

Solutions

1. (C) The number of vertices in three figures (A), (B) and (D) is 5 while the number of vertices in option (C) is 6.

Hence, option (C) is the odd one out among all others.

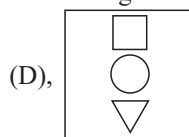
2. (D) In three figures (A), (B) and (C) the outer shape and the inner shape are similar whereas in option (D)



the outer shape and the inner shape are different.

Hence, option (D) is the odd one out among all the others.

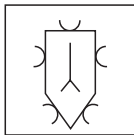
3. (D) In the three figures (A), (B) and (C), the circle, triangle and rectangle are in the same position whereas in option

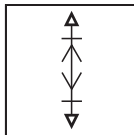


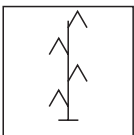
(D), the circle, triangle and rectangle are in different positions.


Hence, option (D) is the odd one out among all the others.


4. (C) In the three figures (A), (B) and (D) each side of the pentagon is surrounded by a semicircle whereas in option (C) each side of the pentagon is surrounded by a line.

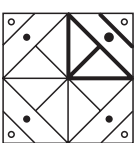
Therefore, option (C)  is the odd one out among all the others.


5. (B) Option (B)  is exactly the same figure as the question figure.


6. (A) Option (A)  is exactly the same figure as the question figure.


7. (C) Option (C)  is exactly the same figure as the question figure.

8. (B) Option (B)  is exactly the same figure as the question figure.

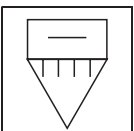
9. (A) 

10. (A) 

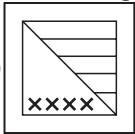
11. (D) 

12. (A) 

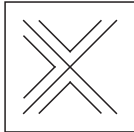
13. (B) The given question figure is turning upside down and upside down alternately. The number of lines inside is increasing by 1 each time, and the next figure will be inverted, with a total of 4 lines. Therefore, the figure in

option (B)  will replace the question mark.

14. (B) In the given question figure there is a slanted line along with a multiplication sign and the lines are increasing. That means the number of \times is increasing in every step and the position of the lines is going downwards and the

figure of option (B)  will come in place of the question mark.

15. (C) In the given question figure, the outer lines along with the cross are gradually increasing and the figure of option

(C)  will come in place of the question mark.

16. (B) In this question, the pattern is based on the number and arrangement of dots inside the figure. As the sequence progresses, the dots are increasing in number and becoming more symmetrically arranged within the shape.

In the first figure, there are fewer dots. In the second, the number increases and in the third, the dots are arranged in a more balanced and structured pattern.

Following this pattern, the next figure should contain more dots arranged in a proper symmetrical order. Among the given options, only option (B) follows correctly.

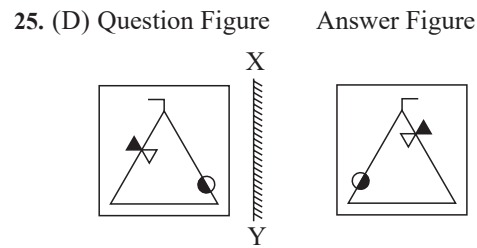
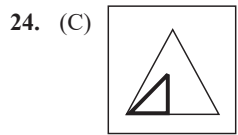
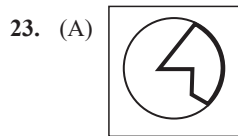
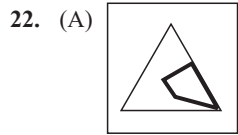
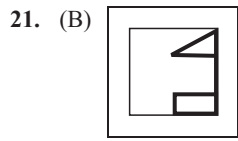
17. (A) This series is based on the interchange of inner and outer shapes along with a change in internal pattern (like shading/lines). The figures show a progression where the outer shape becomes the inner one in the next step and vice versa, while the style inside also changes. Continuing this pattern, the required figure must have the correct combination of swapped shapes and matching internal design, which is satisfied only by option (A).

18. (A) The first two figures show a change in the orientation of lines (vertical to horizontal). Then the pattern shifts to a triangle with dots placed in a specific position. This indicates that both shape transformation and directional change are occurring. The next figure should be the inverted form of the triangle with dots repositioned accordingly. This matches option (A).

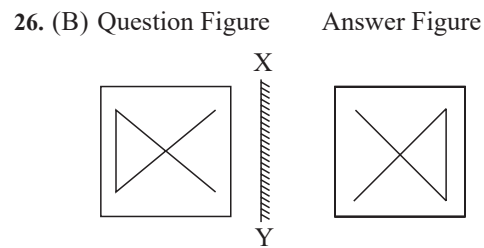
19. (B) This question involves a combination of line, circle and arrow direction. The direction of the arrow changes in a sequence (up, down, etc.), indicating a rotational or directional pattern. Following this order, the next figure should show the arrow pointing upward with the circle placed accordingly. This condition is fulfilled by option (B).

20. (D) The pattern here is based on alternating shading (black and white portions) inside shapes. First, a circle shows half shading, then the shading reverses. Next, the same pattern is applied to a square. Therefore, the following

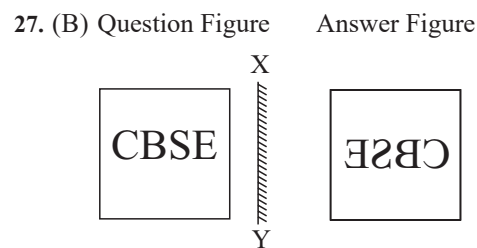
figure should be a square with reversed shading compared to the previous one. This is correctly shown in option (D).



Option (D) is the correct mirror image of the question figure.

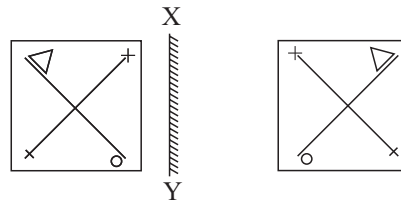


Option (B) is the correct mirror image of the question figure.

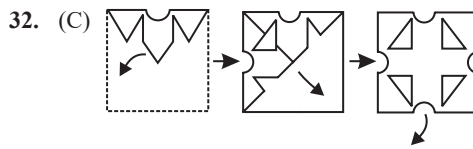
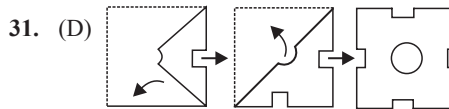
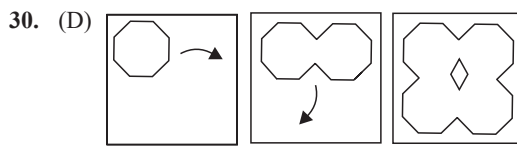
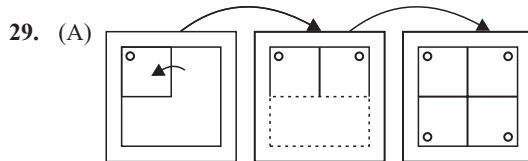


Option (B) is the correct mirror image of the question figure.

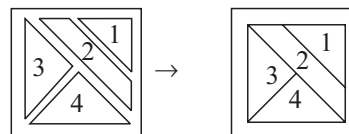
28. (A) Question Figure Answer Figure



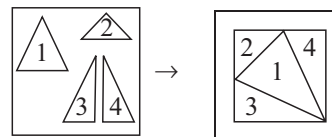
Option (A) is the correct mirror image of the question figure.



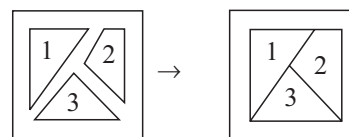
33. (D) Question Figure Answer Figure



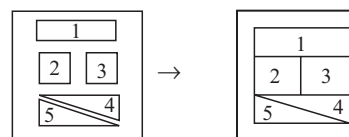
34. (B) Question Figure Answer Figure



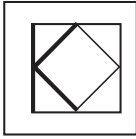
35. (C) Question Figure Answer Figure



36. (B) Question Figure Answer Figure



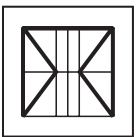
37. (A) The question figure is hidden/embedded in the option (A).



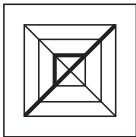
38. (C) The question figure is hidden/embedded in the option (C).



39. (B) The question figure is hidden/embedded in the option (B).



40. (C) The question figure is hidden/embedded in the option (C).



41. (B) Let the five numbers be a, b, c, d and e respectively. has given,

$$a + b + c = 126 \quad \dots(i)$$

$$c + d + e = 177 \quad \dots(ii)$$

$$a + b + c + d + e = 255 \quad \dots(iii)$$

By combining equations (i) and (ii),

$$(a + b + c) + (c + d + e) = 126 + 177$$

$$a + b + 2c + d + e = 303$$

Now,

$$(a + b + 2c + d + e) - (a + b + c + d + e) = 303 - 255$$

$$c = 48$$

Hence, the third number is 48.

42. (D) A composite number is a natural number greater than 1 that has more than two factors. This means it can be divided evenly by numbers other than just 1 and itself.

For example : 4, 6, 8 or 9

43. (C) Largest 6-digit number = 999999

Largest 3-digit number = 999

Now dividing the two numbers,

$$999999 \div 999 = 1001$$

44. (C) Largest 5-digit number = 98765

And,

Smallest 5-digit number = 10234

Therefore, the difference between the largest 5-digit number and the smallest 5-digit number = $98765 - 10234$

$$= 88531$$

45. (B) Smallest 3-digit number = 100

Largest 3-digit number = 999

Total number of numbers = (Largest number - Smallest number) + 1

$$= 999 - 100 + 1$$

$$= 900$$

46. (B) Let,

tens place = x

Units place = y

Given:

$$x + y = 14$$

$$x - y = 2$$

Adding equations (i) and (ii):

$$(x + y) + (x - y) = 14 + 2$$

$$2x = 16$$

$$x = 8$$

Substituting the value of x into equation (i):

$$8 + y = 14$$

$$y = 6$$

Now, the product of the digits = $8 \times 6 = 48$

47. (D) Let the two numbers be x and y .

Given :

$$\text{Difference} = \frac{1}{9} \text{Sum}$$

And, Sum = 45

$$\text{Difference} = \frac{1}{9} \times 45 = 5$$

Now,

$$x + y = 45 \quad \dots (i)$$

$$x - y = 5 \quad \dots (ii)$$

Adding equations (i) and (ii) :

$$(x + y) + (x - y) = 45 + 5$$

$$2x = 50$$

$$x = 25$$

Substituting the value of x into equation (i):

$$25 + y = 45$$

$$y = 20$$

Finding the LCM of x and y :

The Least Common Multiple of the two numbers

$$= 2 \times 2 \times 5 \times 5$$

$$= 4 \times 25 = 100$$

48. (D) Given,

$$\frac{15}{240}$$

$$\frac{15}{240} = \frac{1}{16} = 0.0625$$

49. (A) Given,

$$6 + \frac{9}{10} + \frac{19}{100} + \frac{19}{1000}$$

$$\begin{aligned}
 &= 6 + 0.9 + 0.19 + 0.019 \\
 &= 6 + 1.109 \\
 &= 7.109
 \end{aligned}$$

50. (B) Let the number be x

ATQ,

$$\frac{3}{4} \times \frac{1}{5} \times x = 60$$

$$\frac{3}{20} \times x = 60$$

$$x = 60 \times \frac{20}{3}$$

$$x = 20 \times 20 = 400$$

Therefore, the number is 400.

51. (D) Given,

$$\text{Original salary} = ₹ 4000$$

Initially, the salary was increased by $\frac{1}{20}$.

The increase in salary = $\frac{1}{20}$ of 4000 = 200

$$\text{New salary} = 4000 + 200 = 4200$$

The following year, it was decreased by $\frac{1}{20}$.

The decrease in salary = $\left(\frac{1}{20}\right)$ of 4200 = 210

Again,

$$\text{New salary} = 4200 - 210 = 3990$$

Total change in salary = 4000 - 3990 = ₹10 (a decrease)

52. (D) Given,

$$\left(1 + \frac{1}{2}\right) \left(1 + \frac{1}{3}\right) \left(1 + \frac{1}{4}\right) \dots \left(1 + \frac{1}{150}\right)$$

We know that

$$1 + \frac{1}{n} = \frac{n+1}{n}$$

Then,

$$\frac{3}{2} \times \frac{4}{3} \times \frac{5}{4} \dots \frac{151}{150}$$

$$= \frac{151}{2} = 75\frac{1}{2}$$

53. (B) Given,

$$\begin{aligned}
 &100 - \{(7 \text{ of } 8 + 4) \div 5\} \\
 &= 100 - \{(8 \times 7 + 4) \div 5\} \\
 &= 100 - \{(56 + 4) \div 5\} \\
 &= 100 - \{(60) \div 5\} \\
 &= 100 - 12 \\
 &= 88
 \end{aligned}$$

54. (B) Given,

Total weight of 7 packets = 5 kilograms 628 grams

Converting this into grams :

$$\begin{aligned}
 &= 5 \text{ kilograms } 628 \text{ grams} \\
 &= 5000 + 628 = 5628 \text{ grams}
 \end{aligned}$$

Now, the weight of one packet

$$= \frac{5628}{7} = 804 \text{ grams}$$

55. (B) Given,

Length of the train = 600 meters

Length of the platform = 1400 meters

Total distance = 600 + 1400 = 2000 meters

Speed = 60 km/h

Converting this into meters/second:

$$\text{Speed} = 60 \times \frac{1000}{3600}$$

$$= \frac{60000}{3600}$$

$$= \frac{50}{3} \text{ m/s}$$

$$\text{Time} = \frac{\text{Distance}}{\text{Speed}}$$

$$\text{Time} = \frac{2000}{\frac{50}{3}} = 2000 \times \frac{3}{50}$$

$$\begin{aligned}
 \text{Time} &= 40 \times 3 = 120 \text{ Seconds} \\
 &= 2 \text{ minutes}
 \end{aligned}$$

56. (A) Given,

1 yard = 0.914 meters

Converting 22 yards into meters:

$$\begin{aligned}
 22 \text{ yards} &= 22 \times 0.914 \\
 &= 20.108
 \end{aligned}$$

Therefore, 22 yards is equal to 20.108 meters.

57. (B) We know that,

1 liter = 1000 milliliters

$$1 \text{ milliliter} = \frac{1}{1000} \text{ liters}$$

Now,

$$25 \text{ mL} = \frac{25}{1000} \text{ liters}$$

$$= 0.025 \text{ liters}$$

58. (C) Given,

Loss = ₹160

And, Profit = ₹240

Cost Price = Selling Price + Loss

$$= 1440 + 160 = 1600$$

$$\text{Selling Price} = \text{Cost Price} + \text{Profit}$$

$$= 1600 + 240 = 1840$$

Hence, to make a profit of ₹ 240, the watch should be sold for ₹ 1840.

59. (C) Let the angle be x .

Its complementary angle = $90^\circ - x$

$$x = (90^\circ - x) + 20^\circ$$

$$x = 110^\circ - x$$

$$2x = 110^\circ$$

$$x = 55^\circ$$

Therefore, option (C) is correct.

60. (B) According to the graph :

$$\text{Result in 2020} = 50\%$$

$$\text{Result in 2022} = 90\%$$

$$\text{Percentage increase} = 90\% - 50\% = 40\%$$

61. (A) Sugarcane

- In the second paragraph, it is clearly mentioned that "Sugarcane yields have increased by 6 to 8 tons per acre after the 'sonic treatment'.

62. (A) increase the yield of crops

- The passage explains that farmers use music to "reap rich harvests" and that it promotes maximum growth in sugarcane.

63. (C) Twice a day

- The last line of the first paragraph states that the farmer would "expose the crop to music for half an hour twice a day.

64. (C) instrumental

- The second paragraph specifies that "...it was discovered that instrumental music promotes maximum growth in sugarcane.

65. (D) gifting free music cassettes to the farmers

- The final sentence of the passage states: "The company, 'Sugar Industries', started distributing free music cassettes to the farmers.

66. (C) hieroglyphics

- According to the passage, "This early Egyptian sign writing is called 'Hieroglyphics'.

67. (B) It was first used in temples, tombs and public monuments

- The passage states that the word means 'sacred writing' because Hieroglyphics were first used in tombs, temples and public monuments.

68. (D) Destroy

- The words create, develop and design are synonyms related to making something new, whereas 'destroy' means to end or ruin something.

69. (B) They told a story or passed information

- The second sentence of the passage clearly says, "Pictures were used to tell a story or pass on an information.

70. (D) Private

- 'Public' refers to something accessible to everyone, while 'private' refers to something restricted to an individual or small group.

71. (C) lacto-ova-vegetarians

- The last sentence of the passage states: "The last category includes eggs, in addition to dairy products," referring to the lacto-ova-vegetarians mentioned just before it.

72. (A) To improve by labour and study

- The passage specifies that this habit is "best cultivated in the mind by labour and study," implying the process of improvement and development through mental effort.

73. (C) Promotes

- The passage presents general facts and characteristics in the simple present tense, starting with "Vegetarianism promotes a natural way of life.

74. (B) Has different features

- The word 'multifaceted' means having many sides or different aspects/features. In this context, it refers to the various benefits and elements of a vegetarian lifestyle.

75. (C) Suggestive

- 'Implicit' means something that is suggested or implied though not plainly expressed. Therefore, 'suggestive' is the closest synonym among the options.

76. (C) Effortlessly

- The passage begins with "Success comes easily to Ma," and the word 'effortlessly' is the closest synonym for 'easily' among the options.

77. (D) her, well

- The third sentence of the passage confirms that "it was done by her and done well.

78. (D) Struggling

- The passage describes the company as "floundering," which means it was having great difficulty or struggling to survive.

79. (B) Verb

- In the sentence "she... practised medicine," the word 'practised' describes an action performed by the subject, making it a verb.

80. (A) Rejuvenate

- 'Collapse' means to fall down or fail completely, while 'rejuvenate' means to make something look or feel better, younger or vital again.

□□

जवाहर नवोदय विद्यालय प्रवेश परीक्षा-20__

पृष्ठ-1 SIDE-1

उत्तर-पत्रिका / ANSWER SHEET

नीचे दिए गए रिक्त स्थानों को केवल नीले/काले बॉल प्वाइंट-पेन से भरें।

FILL IN THE FOLLOWING ENTRIES WITH BLUE/BLACK BALL POINT PEN ONLY

अनुक्रमांक/Roll Number

□	□	□	□	□	□	□
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अभ्यर्थी का नाम (बड़े अक्षरों में)

NAME OF THE CANDIDATE (IN CAPITAL LETTERS)

--

पिता का नाम (बड़े अक्षरों में)

FATHER'S NAME (IN CAPITAL LETTERS)

--

पृष्ठ-2 पर उत्तर अंकित करने के लिए अनुदेश
INSTRUCTIONS FOR MARKING RESPONSE ON SIDE-2



- केवल नीले/काले बॉल पेन से सही गोले को गहरे निशान से भरिए।
Use Only Blue/Black Ball Point Pen to darken the appropriate circle.
- कृपया पूरे गोले को गहरे निशान से भरिए।
Please darken the complete circle.
- प्रत्येक प्रश्न का उत्तर केवल एक ही पूरे गोले में गहरा निशान लगाकर दीजिए जैसा नीचे दिखाया गया है :
Darken ONLY ONE CIRCLE for each, Question as shown below :



- किसी उत्तर के लिए एक बार गोले में निशान लगाने के पश्चात् कोई परिवर्तन अनुमान्य नहीं है।
No Change in the Answer once marked is allowed.
- उत्तर-पत्रिका पर अन्य कहीं कोई निशान न लगाएँ।
Please do not make any stray mark on the OMR Sheet.
- इस ओ.एम.आर. उत्तर-पत्रिका पर कच्चा काम करना मना है।
Rough work must not be done on the OMR Sheet.
- प्रत्येक प्रश्न का उत्तर, उत्तर-पत्रिका में दिए गए क्रमांक के सामने संगत गोले में निशान लगाकर दीजिए।
Mark your answer only in the appropriate space in the OMR Sheet against the Number corresponding to the question.

↓ कृपया यहाँ से काटे / Please Cut Here ↓

उदाहरण :- पृष्ठ-2 को भरने की विधि (केवल नीले/काले बॉल पेन से भरिए)

Example : How to Fill and Mark on Side-2 (With Blue/Black Ball Point Pen Only)

अगर आपका अनुक्रमांक
2712371 है।
If your Roll No. is
2712371

अनुक्रमांक Roll No.						
2	7	1	2	3	7	1
○	○	○	○	○	○	○
①	①	①	①	①	①	①
●	●	●	●	●	●	●
③	③	③	③	③	③	③
④	④	④	④	④	④	④
⑤	⑤	⑤	⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨	⑨	⑨	⑨

अगर आपकी मुख्य प्रश्न पुस्तिका नं.
7642150 है।
If your Main Test Booklet
No. is 7642150

मुख्य प्रश्न पुस्तिका Main Test Booklet No.						
7	6	4	2	1	5	0
○	○	○	○	○	○	○
①	①	①	①	①	①	①
②	②	②	②	②	②	②
③	③	③	③	③	③	③
④	④	④	④	④	④	④
⑤	⑤	⑤	⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨	⑨	⑨	⑨

अगर आपका राज्य 03, जिला 10,
खण्ड .01, केन्द्र 01 है।
If your State 03, Distt. 10,
Block 01 & Centre 01

State	Distt.	Block	Centre
0	3	1	0
○	○	○	○
①	①	①	①
②	②	②	②
③	③	③	③
④	④	④	④
⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨

अगर प्रश्न नं. 7 का
उत्तर A है।
If your response to
Q. No. 7 is A

Q. No.	Response
07	● B C D

महत्वपूर्ण (IMPORTANT)

अभ्यर्थी इस बात का ध्यान रखें कि मुख्य प्रश्न पुस्तिका में छपा हुआ कोड और उत्तर-पत्रिका के पृष्ठ-2 में छपा हुआ मुख्य पुस्तिका कोड समान हो। अगर ऐसा नहीं है तो तुरन्त कक्षनिरीक्षक को सूचित करें और अपनी मुख्य प्रश्न-पुस्तिका एवं उत्तर पत्रिका बदलवाएँ।
The candidate should check carefully that the Main Booklet Code printed on Side-2 of the OMR Sheet is the same as Printed on Main Test Booklet, In case of discrepancy, the candidate should Immediately report the matter to the invigilator for replacement of both the Main Test Booklet and the OMR Sheet.