

**AGRAWAL**  
**EXAMCART**

Paper Pakka Faisega!

30<sup>th</sup> April 2022  
solved paper  
included

CONDUCTED BY  
**NAVODAYA VIDYALAYA SAMITI**

# JAWAHAR NAVODAYA VIDYALAYA

## Entrance Exam 2023

Previous  
years paper  
analytical chart  
included

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

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# Practice Set-1

## Reasoning

### 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)

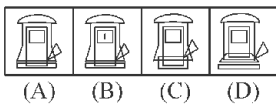
### Direction (Q. No. 5 to 8)

A 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 as the question figure.

#### 5. Question Figure



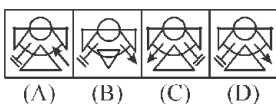
#### Answer Figures



#### 6. Question Figure



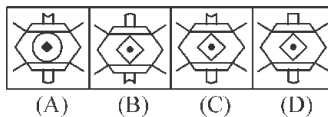
#### Answer Figures



#### 7. Question Figure



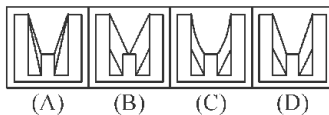
#### Answer Figures



#### 8. Question Figure



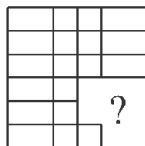
#### Answer Figures



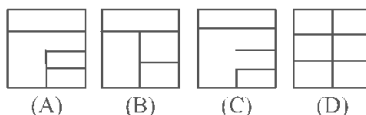
### Direction (Q. No. 9 to 12)

There is a question figure, a part of which is missing. Observe the answer figures (A), (B), (C) and (D) 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.

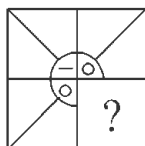
#### 9. Question Figure



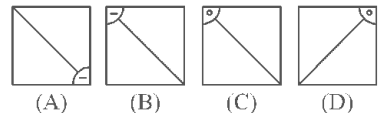
#### Answer Figures



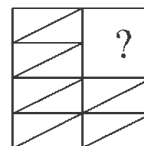
#### 10. Question Figure



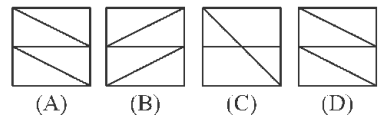
#### Answer Figures



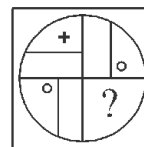
#### 11. Question Figure



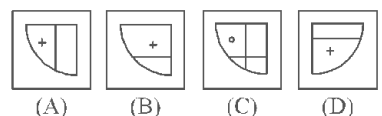
#### Answer Figures



#### 12. Question Figure



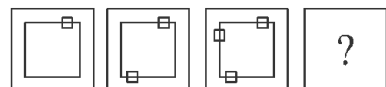
#### Answer Figures



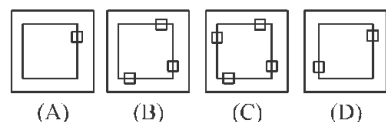
### Direction (Q. No. 13 to 16)

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

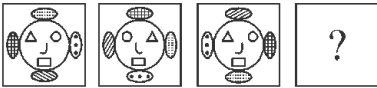
#### 13. Question Figures



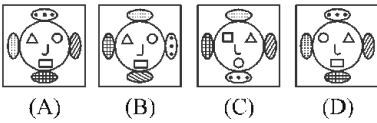
#### Answer Figures



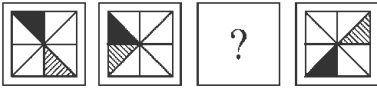
14. Question Figures



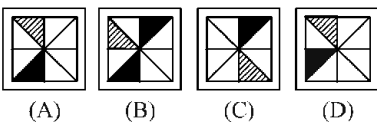
Answer Figures



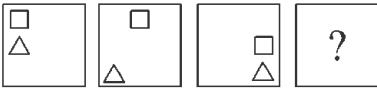
15. Question Figures



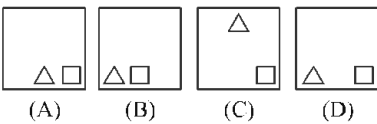
Answer Figures



16. Question Figures



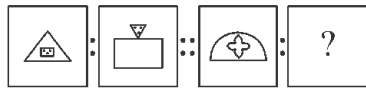
Answer Figures



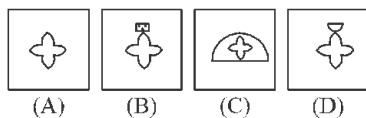
Direction (Q. No. 17 to 20)

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

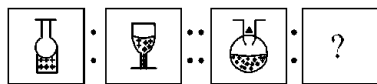
17. Question Figures



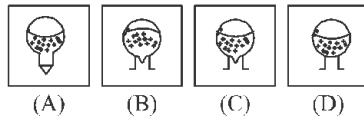
Answer Figures



18. Question Figures



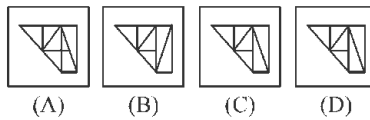
Answer Figures



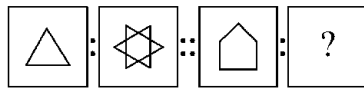
19. Question Figures



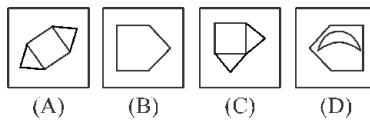
Answer Figures



20. Question Figures



Answer Figures



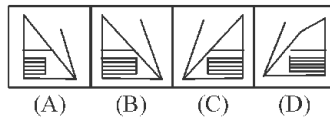
Direction (Q. No. 21 to 24)

One part of a geometrical figure (Triangle, Square, Circle) is as question figure 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



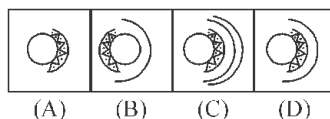
Answer Figures



22. Question Figure



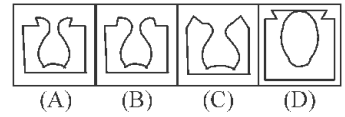
Answer Figures



23. Question Figure



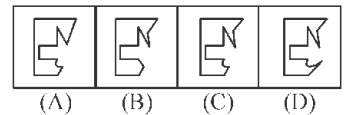
Answer Figures



24. Question Figure



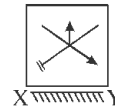
Answer Figures



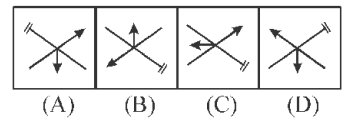
Direction (Q. No. 25 to 28)

There is a question figure 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.

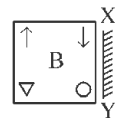
25. Question Figure



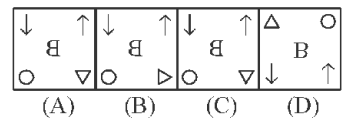
Answer Figures



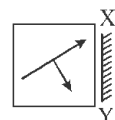
26. Question Figure



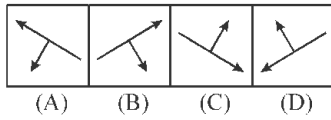
Answer Figures



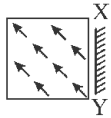
27. Question Figure



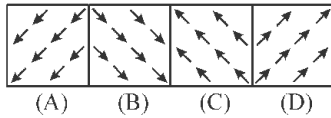
**Answer Figures**



**28. Question Figure**



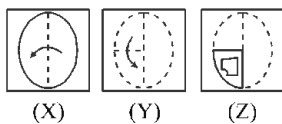
**Answer Figures**



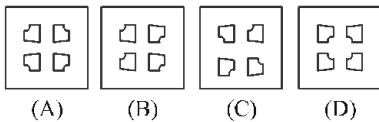
**Direction (Q. No. 29 to 32)**

A piece of paper is folded and punched as shown in the question figures 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).

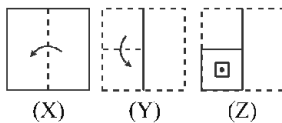
**29. Question Figures**



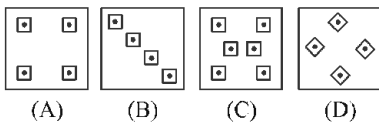
**Answer Figures**



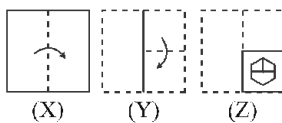
**30. Question Figures**



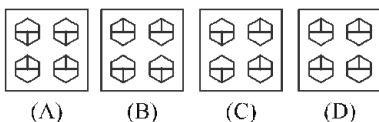
**Answer Figures**



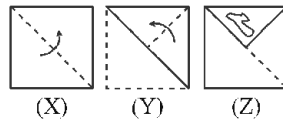
**31. Question Figures**



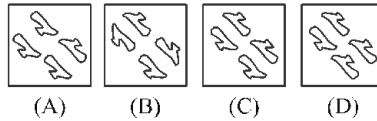
**Answer Figures**



**32. Question Figures**



**Answer Figures**



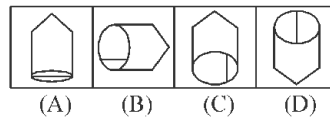
**Direction (Q. No. 33 to 36)**

A question figure is given 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.

**33. Question Figure**



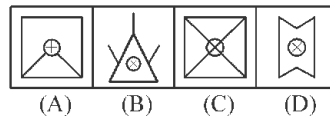
**Answer Figures**



**34. Question Figure**



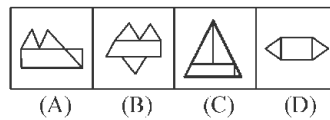
**Answer Figures**



**35. Question Figure**



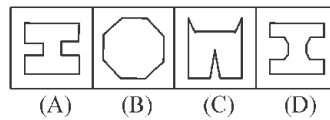
**Answer Figures**



**36. Question Figure**



**Answer Figures**



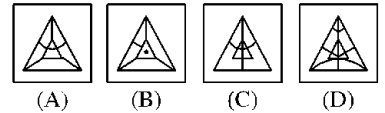
**Direction (Q. No. 37 to 40)**

A question figure 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**



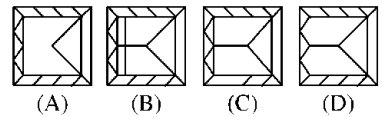
**Answer Figures**



**38. Question Figure**



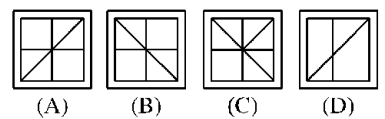
**Answer Figures**



**39. Question Figure**



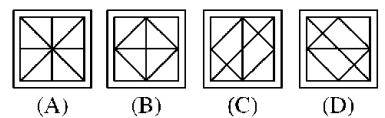
**Answer Figures**



**40. Question Figure**



**Answer Figures**



**Mathematics**

41.  $5 - [4 - \{3 - (3 - 3 - 6)\}]$  equals to :

- (A) 10
- (B) 6
- (C) 4
- (D) 0

42. The length of a string is 5 meters. If  $4\frac{5}{8}$  meters of string has cut, then find the length of the remaining string.

## English

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 passages answers as (A), (B), (C) and (D) are given. Only one out of these is correct.

### Passage-1

Jules Verne was a Frenchman who was born in 1828. He was not an inventor and he was not a scientist, but he read a great many books on science. He had very strong imagination and he loved adventures although he did not have many great adventures himself. He wrote a number of electing books about the things which he thought that scientists and inventors would one day be able to do. At that time his stories seemed like fairy tales.

Many of Jules Verne's attempts to look into the future, however, were surprisingly. One of his look was called 'From Earth to Moon'. In this three men and a dog made a journey around his moon they did this in a hollow 'Ship' fired from a gun. After going around the Moon, they returned to earth and splashed down into the sea not far from where the first real Moon travellers landed in July, 1969 about a hundred years later.

Jules Verne's most famous book is 'Twenty Thousand Leagues under the sea'. Jules Verne died in 1905. When he was seventy seven. Many years later, explores really did go to the Moon and one part of the Moon was given Jules Verne's name. Answer the following questions :

61. Who was Jules Vern ?  
(A) inventor (B) scientist  
(C) writer (D) actor
62. Three men and a dog made a journey around the Moon in a book.  
(A) From earth to moon  
(B) Around the world in eighty days  
(C) Twenty Thousand Leagues under the sea  
(D) The mysterious Island
63. Verne's stories were like :  
(A) adventure (B) fairy tales  
(C) imagination (D) lore story
64. How did the three men and a dog made journey around the moon :  
(A) Through a sea  
(B) Space Ship  
(C) In a hollow 'ship'  
(D) in a car
65. When did the first real Moon travellers landed on Moon ?  
(A) 1828 (B) 1905  
(C) 1969 (D) 1808

- (A)  $\frac{3}{8}$  (B)  $\frac{7}{8}$   
(C)  $\frac{5}{8}$  (D)  $\frac{1}{8}$
43. What is 0.001 equal to ?  
(A) 10% (B) 1%  
(C) 0.01% (D) 0.1%
  44. How will half of 1% be written in decimal ?  
(A) 0.2 (B) 0.02  
(C) 0.005 (D) 0.05
  45. A shopkeeper wants to earn 20% profit by purchasing an article for ₹ 500. The selling price of the article will be :  
(A) ₹ 600 (B) ₹ 550  
(C) ₹ 500 (D) ₹ 650
  46. What is the place value of 5 in 3254710 ?  
(A) 5 (B) 10000  
(C) 50000 (D) 54710
  47. The face value of 8 in the number 458926 is :  
(A) 8 (B) 1000  
(C) 8000 (D) 8926
  48.  $38649 - (1624 + 4483) = ?$   
(A) 32542 (B) 32452  
(C) 34542 (D) 35422
  49. Find the factors of 330.  
(A)  $2 \times 4 \times 5 \times 11$   
(B)  $2 \times 3 \times 7 \times 13$   
(C)  $2 \times 3 \times 5 \times 13$   
(D)  $2 \times 3 \times 5 \times 11$
  50. Find the factors of 1122.  
(A)  $3 \times 9 \times 17 \times 2$   
(B)  $3 \times 11 \times 17 \times 2$   
(C)  $9 \times 9 \times 17 \times 2$   
(D)  $3 \times 11 \times 17 \times 3$
  51. What would be the simple interest obtained on an amount of ₹ 5760 at the rate of 6 p.c.p.a. after 3 years ?  
(A) ₹ 1036.80 (B) ₹ 1063.80  
(C) ₹ 1336.80 (D) ₹ 1666.80
  52. If a person walks at 14 km/hr instead of 10 km/hr, he would have walked 20 km more. The actual distance travelled by him is :  
(A) 50 km (B) 80 km  
(C) 60 km (D) 56 km
  53. The log boats do not go very far. If the wind is helpful, they travel about 4 km in one hour. How long will they take to go a distance of 10 km ?

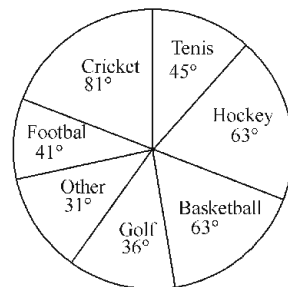
- (A) 10 hours (B) 2 hours  
(C) 4 hours (D) 2 hours 30 min.
54.  $11.8 \text{ km} = ?$   
(A) 1180 dam (B) 1.180 dam  
(C) 11800 dam (D) None of these
  55.  $(225.15 + 74.85 - 50) \times 2.5 = ?^2$   
(A) 16 (B) 24  
(C) 25 (D) 30

56.  $2^7 \times \sqrt{576} = 540 \div 3 - 84$   
(A) 0 (B) 1  
(C) 2 (D) 3

57. Simplify :

$$\frac{5 \times 17 \text{ of } 7 - 1}{3 \times 5 \text{ of } 51 - 3} - \frac{2 \times 28 \text{ of } 5 - 2}{9 \times 5 \text{ of } 7 - 3}$$

- (A)  $\frac{1}{2}$  (B) 4  
(C) 2 (D)  $\frac{1}{4}$
58. In measuring the sides of a rectangular plot, one side is taken 5% in excess and the other 6% is deficit. Find the error percent in area calculated.  
(A) 0.5% (B) 1.0%  
(C) 1.3% (D) 2.3%
  59.  $360 \text{ m}^3$  water is used to irrigate rectangular field of length 40 m and width 18 m. The height of the water level in the field will be ..... m.  
(A) 0.5 (B) 1  
(C) 1.5 (D) 0.2
  60. The given pie chart shows (in degree) the expenditure incurred on various sports during a particular year. Study the graph carefully and answer the questions.



If the total amount spent in that year is 2 crores, then the total amount spent on cricket and hockey was :

- (A) ₹ 8,00,000 (B) ₹ 80,00,000  
(C) ₹ 12000000 (D) ₹ 16000000

### Passage-2

There are wild dogs and pet dogs. Pet dogs are helpers and friends to people. There were no pet dogs 15,000 years ago. Men and women learned how to work with dogs. Dogs helped humans travel from Asia to North America 10,000 years ago by pulling sleds in the snow. People say dogs are "man's best friend." They help with farming. They help with hunting. They help with fishing. They can pull things for people. They can help find things. There are many colors of dogs. There are white dogs, gray dogs, black dogs and brown dogs. A dog's fur can be short or long. Dogs have curly hair or straight fur. There are very small dogs. They are only 6-8 inches tall. There are very big dogs. They are about 3 feet tall. Some dogs can see well. Some dogs do not see very well. All dogs can hear well. They can hear sounds that people cannot hear. They can hear high sounds and low sounds. They can hear sound very far away. All dogs can smell very well. They can smell 40 times better than humans! Dogs live 5 to 13 years, but some dogs live much longer. One dog lived to be 24 years old!

66. Dogs helped people go to America by .....
- (A) pulling sleds in the snow.
  - (B) helping with farming.
  - (C) helping find things.
  - (D) None of the above
67. How tall are the smallest dogs ?
- (A) 3 inches      (B) 5 inches
  - (C) 6 inches      (D) 13 inches
68. How tall are the biggest dogs ?
- (A) 1 foot      (B) 3 feet
  - (C) 4 feet      (D) 5 feet
69. What can all dogs do well ?
- (A) see
  - (B) hear
  - (C) smell
  - (D) Both (B) and (C) are correct

70. How old was the oldest dog ?
- (A) 5 years old    (B) 10 years old
  - (C) 13 years old   (D) 24 years old

### Passage-3

Bees are insects. Bees are special insects because they can fly! They can move through the air like an airplane! Bees can fly because they have wings. They use their wings to fly. Bees can fly fast. Bees can also fly slow. They can fly up and they can fly down. They need to fly to get to the flowers! Bees can have three colours. They can be yellow, red and orange. All bees are black in some places. Bees have three main parts. They have a head. They have a body. And, they have a stinger. The stinger is used to defend against enemies. They also have six legs. They use their legs to stand and climb. They also use their legs to eat and collect pollen. Bees live in many places. They live in Africa, Australia, Asia, Europe, North America, South America. The only continent that bees do not live on is Antarctica! I understand why they don't live in Antarctica. It's too cold! Most of the time, bees are nice to humans. If you do not bother them, they will not bother you. I have fun watching the bees this summer!

Answer the following questions :

71. What are bees ?
- (A) Mammals      (B) Birds
  - (C) Reptiles      (D) Insects
72. How do bees fly ?
- (A) They use their legs
  - (B) They use their head
  - (C) They use their wings
  - (D) None of the above.
73. How many legs do bees have ?
- (A) Two      (B) Four
  - (C) Six      (D) Eight
74. What is the stinger used for?
- (A) To eat food
  - (B) To defend against enemies
  - (C) Both A and B
  - (D) None of the above

75. Where do bees live ?
- (A) North America
  - (B) Asia
  - (C) Antarctica
  - (D) Both A and B

### Passage-4

Plants need sunlight and water to make their own food. You can do an experiment to test if this is true. Place a bucket over a patch of green grass. After a few days, lift the bucket. You will see that the grass is not as green anymore. If you leave the bucket in place for a week, the grass will become very dull. This happens because the grass cannot make food in the dark. Remove the bucket. In a few days, the grass will start turning green again.

Answer the following questions :

76. What is the main point of this passage ?
- (A) Buckets are bad.
  - (B) Plants need sunlight.
  - (C) Grass is not pretty when it is dull.
  - (D) None of the above
77. What is an experiment ?
- (A) a way to grow grass
  - (B) a way to test an idea
  - (C) a way to use a bucket
  - (D) none of the above
78. What happens after a few days ?
- (A) The grass turns brown.
  - (B) The grass gets very dull
  - (C) The grass is not as green
  - (D) None of the above
79. What is the opposite of dull?
- (A) bright      (B) brown
  - (C) sunlight      (D) dark
80. According to the passage, how long does it take for the grass to become dull ?
- (A) a month
  - (B) a week
  - (C) a few days
  - (D) none of the above



## 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**

--	--	--	--	--	--	--

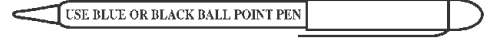
**अभ्यर्थी का नाम (बड़े अक्षरों में)**

**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**



1. 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.
2. कृपया पूरे गोले को गहरे निशान से भरिए।  
Please darken the complete circle.
3. 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 :



4. 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.
5. उत्तर-पत्रिका पर अन्य कहीं कोई निशान न लगाएँ।  
Please do not make any stray mark on the OMR Sheet.
6. इस ओ.एम.आर. उत्तर-पत्रिका पर कच्चा काम करना नना है।  
Rough work must not be done on the OMR Sheet.
7. 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.

**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
0	0	0	0	0	0	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 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
0	0	0	0	0	0	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
0	0	0	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.

जवाहर नवोदय विद्यालय प्रवेश परीक्षा-20\_\_

पृष्ठ-2 SIDE-2

(To be filled by the Candidate)

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

(To be filled by the Invigilator)

अनुक्रमांक Roll No.										मुख्य प्रश्न पुस्तिका Main Test Booklet No.										State	Distt.	Block	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3				
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5				
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7				
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8				
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9				

OMR ANSWER SHEET

उत्तर पत्रिका नं./Answer Sheet No.

280072



मुख्य पुस्तिका कोड  
Main booklet Code

A

Q.No.	Response	Q.No.	Response	Q.No.	Response	Q.No.	Response
1	(A) (B) (C) (D)	21	(A) (B) (C) (D)	41	(A) (B) (C) (D)	61	(A) (B) (C) (D)
2	(A) (B) (C) (D)	22	(A) (B) (C) (D)	42	(A) (B) (C) (D)	62	(A) (B) (C) (D)
3	(A) (B) (C) (D)	23	(A) (B) (C) (D)	43	(A) (B) (C) (D)	63	(A) (B) (C) (D)
4	(A) (B) (C) (D)	24	(A) (B) (C) (D)	44	(A) (B) (C) (D)	64	(A) (B) (C) (D)
5	(A) (B) (C) (D)	25	(A) (B) (C) (D)	45	(A) (B) (C) (D)	65	(A) (B) (C) (D)
6	(A) (B) (C) (D)	26	(A) (B) (C) (D)	46	(A) (B) (C) (D)	66	(A) (B) (C) (D)
7	(A) (B) (C) (D)	27	(A) (B) (C) (D)	47	(A) (B) (C) (D)	67	(A) (B) (C) (D)
8	(A) (B) (C) (D)	28	(A) (B) (C) (D)	48	(A) (B) (C) (D)	68	(A) (B) (C) (D)
9	(A) (B) (C) (D)	29	(A) (B) (C) (D)	49	(A) (B) (C) (D)	69	(A) (B) (C) (D)
10	(A) (B) (C) (D)	30	(A) (B) (C) (D)	50	(A) (B) (C) (D)	70	(A) (B) (C) (D)
11	(A) (B) (C) (D)	31	(A) (B) (C) (D)	51	(A) (B) (C) (D)	71	(A) (B) (C) (D)
12	(A) (B) (C) (D)	32	(A) (B) (C) (D)	52	(A) (B) (C) (D)	72	(A) (B) (C) (D)
13	(A) (B) (C) (D)	33	(A) (B) (C) (D)	53	(A) (B) (C) (D)	73	(A) (B) (C) (D)
14	(A) (B) (C) (D)	34	(A) (B) (C) (D)	54	(A) (B) (C) (D)	74	(A) (B) (C) (D)
15	(A) (B) (C) (D)	35	(A) (B) (C) (D)	55	(A) (B) (C) (D)	75	(A) (B) (C) (D)
16	(A) (B) (C) (D)	36	(A) (B) (C) (D)	56	(A) (B) (C) (D)	76	(A) (B) (C) (D)
17	(A) (B) (C) (D)	37	(A) (B) (C) (D)	57	(A) (B) (C) (D)	77	(A) (B) (C) (D)
18	(A) (B) (C) (D)	38	(A) (B) (C) (D)	58	(A) (B) (C) (D)	78	(A) (B) (C) (D)
19	(A) (B) (C) (D)	39	(A) (B) (C) (D)	59	(A) (B) (C) (D)	79	(A) (B) (C) (D)
20	(A) (B) (C) (D)	40	(A) (B) (C) (D)	60	(A) (B) (C) (D)	80	(A) (B) (C) (D)

↑ कृपया यहाँ से काटें / Please Cut Here ↑

Invigilator to Put Centre Stamp in Blue/Black

उत्तर पत्रिका निरीक्षक को सौंपने से पहले उम्मीदवार को यह जाँच करनी चाहिए कि अनुक्रमांक एवं मुख्य प्रश्न पुस्तिका संख्या सही ढंग से भर दिए गए और चिन्हित कर दिए गए हैं।  
Before handing over the OMR Sheet to the Invigilator, the candidate should check that roll number and main test booklet numbers are filled in and marked correctly.

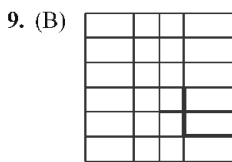
Signature of Candidate running hand

Signature of Invigilator

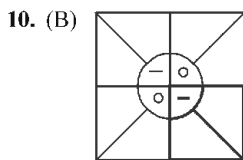
# Solutions

## Practice Set-1

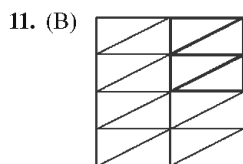
- (A) In all the other figures, the cuts are made on two sides of a square sheet.
- (D) Except figure (D), all the figures can be rotated into each other.
- (C) Except (C), all the figures can be rotated into each other.
- (B) All the figures except (B), the number of line segments is equal on both sides of the line.
- (A) The given figure in questions is similar to the figure of option (A). So, option (A) is the correct answer.
- (D) The given figure in questions is similar to the figure of option (D). So, option (D) is the correct answer.
- (C) The given figure in questions is similar to the figure of option (C). So, option (C) is the correct answer.
- (D) The given figure in questions is similar to the figure of option (D). So, option (D) is the correct answer.



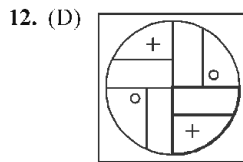
The figure of the option (B) will complete the question figure. Hence, option (B) is the correct answer.



The figure of the option (B) will complete the question figure. Hence, option (B) is the correct answer.



The figure of the option (B) will complete the question figure. Hence, option (B) is the correct answer.



The figure of the option (D) will complete the question figure. Hence, option (D) is the correct answer.

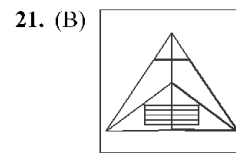
- (C) In each next figure, a small square is added to the main figure. Hence, the answer figure (C) will be obtained.
- (D) In each next figure, the outside designs of the circle move one place in clockwise direction. Small triangle and circle inside the circle change their position and the middle design gets inverted.
- (D) In each next figure, the blackened part rotates one place in anticlockwise direction and the shaded part rotates two places in clockwise direction.
- (C) In each next figure, the square rotates half and one place in clockwise direction and the triangle rotates half, one, one and a half, two ..... places respectively in anticlockwise direction.

- (D) From first to second figure, the inner figure increases in size. The outer figure reduces in size and gets inverted and its top touches the inner figure from top side. The dots of inner figure come in the outside figure. Similarly, we get fourth figure (D) from third figure.

- (C) The first figure is inverted in the second figure and the position of the dots is changed. Similarly, the fourth figure (C) will be get from the third figure.

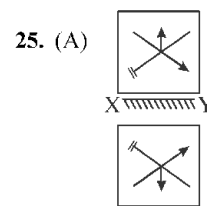
- (C) Second figure is the mirror image of first figure. Similarly, fourth figure is the mirror image of the third figure.

- (A) From first to second figure, the first figure rotates  $45^\circ$  in clockwise direction and two identical figures intersect each other. Similarly, the fourth figure (A) gets from the third figure.

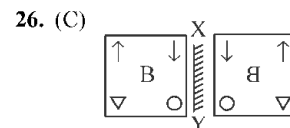


The figure of option (B) completes the geometrical figure in the given question figure.

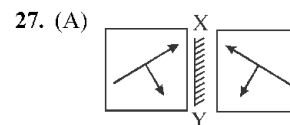
- (D) The figure of option (D) completes the geometrical figure in the given question figure.
- (A) The figure of option (A) completes the geometrical figure in the given question figure.
- (C) The figure of option (C) completes the geometrical figure in the given question figure.



Hence, option (A) is the correct mirror image of the question figure.

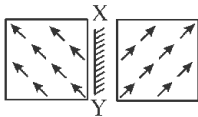


Hence, option (C) is the correct mirror image of the question figure.



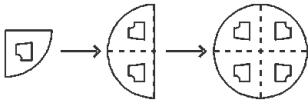
Hence, option (A) is the correct mirror image of the question figure.

28. (D)



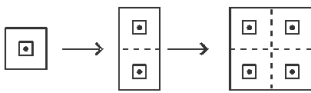
Hence, option (D) is the correct mirror image of the question figure.

29. (A) On opening the folded and punched paper in sequence,



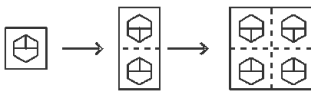
it will look the same as option (A) after the whole paper opening.

30. (A) On opening the folded paper in sequence,



it will look the same as option (A) after the whole paper opening.

31. (A) On opening the folded paper in sequence,



it will look the same as option (A) after the whole paper opening.

32. (B) After opening the folded and punched paper in a sequence, it looks the same as option (B). Hence, option (B) is the correct answer.

33. (D) The figure of option (D) can be formed from the pieces given in the question figure.

34. (B) The figure of option (B) can be formed from the pieces given in the question figure.

35. (C) The figure of option (C) can be formed from the pieces given in the question figure.

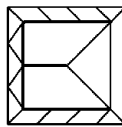
36. (D) The figure of option (D) can be formed from the pieces given in the question figure.

37. (C)



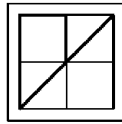
Hence, question figure is embedded in figure of option (C).

38. (C)



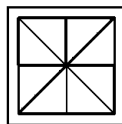
Hence, question figure is hidden/embedded in figure of option (C).

39. (A)



Hence, question figure is embedded in figure of option (A).

40. (A)



Hence, question figure is embedded in figure of option (A).

41. (A)  $5 - [4 - \{3 - (3 - 3 - 6)\}]$   
 $= 5 - [4 - \{3 + 6\}]$   
 $= 5 - (4 - 9)$   
 $= 5 - (-5) = 10$

42. (A) Length of the string = 5 meters

$$\text{Length of cutting part} = 4 \frac{5}{8}$$

$$= \frac{37}{8} \text{ meters}$$

$$\therefore \text{Required length} = 5 - \frac{37}{8}$$

$$= \frac{40 - 37}{8} = \frac{3}{8} \text{ meters}$$

43. (D)  $0.001 = \frac{1}{1000} = \frac{0.1}{100} = 0.1\%$

44. (C) Half of 1% =  $\frac{1}{100} \times \frac{1}{2}$   
 $= \frac{1}{200} = 0.005$

45. (A) S.P. of the article

$$= \left[ 500 + 500 \times \frac{20}{100} \right]$$

$$= 500 + 100$$

$$= ₹ 600$$

46. (C)

Ones	0
Tens	1
Hundreds	7
Thousands	4
Ten Thousand	5
Lakh	2
Ten Lakh	3

$$\text{Place value of 5} = (5 \times 10000) = 50000$$

47. (A) The face value of 8 in the given numeral is 8.

48. (A) Given expression

$$= 38649 - (1624 + 4483)$$

$$= (38649 - 6107) = 32542$$

49. (D) 
$$\begin{array}{r} 2 \overline{) 330} \\ \underline{3} \phantom{0} \\ 5 \phantom{0} \\ \underline{5} \phantom{0} \\ 11 \end{array}$$

$$\therefore 330 = 2 \times 3 \times 5 \times 11$$

50. (A) 
$$\begin{array}{r} 2 \overline{) 1122} \\ \underline{3} \phantom{00} \\ 11 \phantom{00} \\ \underline{11} \phantom{00} \\ 17 \end{array}$$

$$\therefore 1122 = 2 \times 3 \times 11 \times 17$$

51. (A) P = ₹ 5760, R = 6%, T = 3 yrs.

$$\therefore \text{S.I.} = ₹ \left( \frac{5760 \times 6 \times 3}{100} \right)$$

$$= ₹ 1036.80$$

52. (A) Let the actual distance by a person = x km

$$\text{Then, actual time} = \frac{x}{10}$$

ATQ,

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

$$x + 20 = 14 \times \frac{x}{10}$$

$$10x + 200 = 14x$$

$$4x = 200$$

$$x = 50 \text{ km}$$

53. (A) 4 km distance travel in = 1 hour

$$1 \text{ km distance travel in} = \frac{1}{4} \text{ hour}$$

$$10 \text{ km distance travel in} = \frac{1}{4} \times 10$$

$$= 2.5 \text{ hour}$$

$$= 2 \text{ h } 30 \text{ m}$$

54. (A) 1 km = 100 dam  
11.8 km =  $11.8 \times 100$   
= 1180 dam

55. (C)  $?^2 = (225.15 + 74.85 - 50) \times 2.5$   
=  $(300 - 50) \times 2.5$   
=  $250 \times 2.5 = 25 \times 25$   
 $\therefore ? = 25$

56. (C)  $2^? \times \sqrt{576} = \frac{540}{3} - 84$   
 $\Rightarrow 2^? \times 24 = 180 - 84$   
 $\Rightarrow 2^? \times 24 = 96$   
 $\Rightarrow 2^? = \frac{96}{24} = 4$   
 $\Rightarrow 2^? = 2^2$   
 $\Rightarrow ? = 2$

57. (C)  $\frac{5}{3} \times \frac{17}{5}$  of  $\frac{7}{51} - \frac{1}{3}$   
 $\frac{2}{9} \times \frac{28}{5}$  of  $\frac{5}{7} - \frac{2}{3}$   
 $\frac{5}{3} \times \left( \frac{7}{51} \times \frac{17}{5} \right) - \frac{1}{3}$   
 $= \frac{2}{9} \times \left( \frac{5}{7} \times \frac{28}{5} \right) - \frac{2}{3}$   
 $\frac{5}{3} \times \frac{7}{15} - \frac{1}{3}$   
 $= \frac{2}{9} \times 4 - \frac{2}{3}$   
 $\frac{7}{3} - \frac{1}{3}$   
 $= \frac{9}{8} - \frac{2}{3} = \frac{7-3}{8-6} = \frac{4}{2} = 2$

58. (C) Let the original length and breadth be  $l$  and  $b$  respectively.  
After changes,  
New length after 5% excess

$$= l + \frac{5l}{100}$$

$$= \frac{105l}{100}$$

New breadth after 6% deficit

$$= b - \frac{6b}{100} = \frac{94b}{100}$$

$$\therefore \text{Calculated area} = \frac{105l}{100} \times \frac{94b}{100}$$

$$= \frac{987}{1000} lb$$

$$\text{Error in area} = lb - \frac{987}{1000} lb$$

$$= \frac{13}{1000} lb$$

$$\therefore \text{Error \%} = \frac{13}{1000} lb \times \frac{1}{lb} \times 100$$

$$= 1.3\%$$

59. (A) AIQ, Let, water level be  $h$  metres.  
Then,

$$l \times b \times h = 360 \text{ m}^3$$

$$40 \times 18 \times h = 360$$

$$h = \frac{360}{720}$$

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

$$h = 0.5 \text{ m}$$

60. (B) Expenses on Cricket and Hockey

$$= \frac{81+63}{360^\circ} \times 100$$

$$= \frac{144}{360} \times 100 = 40\%$$

So, total expenses

$$= \frac{40}{100} \times 2,00,00,000$$

$$= 80,00,000$$

61. (C) Jules verne was the first authentic writer of modern science.

62. (A) In the book From earth to moon" three men and a dog made a journey around the moon.

63. (B) Verne's stories were like fairy tales.

64. (C) The three men and a dog made journey around the moon in a hollow ship'.

65. (C) The first real Moon travellers landed in July, 1969 about a hundred years later.

66. (A) Dogs helped humans travel from Asia to North America 10,000 years ago by pulling sleds in the snow. So, option (A) is correct .

67. (C) The smallest dogs are only 6-8 inch tall. So, option (C) is correct .

68. (B) The biggest dogs are about 3 feet tall. So, option (B) is correct.

69. (C) All dogs can smell very well.

70. (D) The oldest dog was 24 years old.

71. (D) Bees are insects.

72. (C) Bees can fly because they have wings.

73. (C) Bees (They) have six legs.

74. (B) Bees have a stinger and it is used to defend against enemies.

75. (D) Bees live in Africa, Australia, Asia, Europe, North America, South America but do not live Antarctica. So, option (D) is correct.

76. (B) The main idea of the passage is the fact that plants need sunlight. So, option (B) is correct.

77. (B) According to the passage we conclude that an experiment will "test if this is true." We know that "this" means the idea from the previous sentence that "plants need sunlight." An experiment is a way to test this idea. So, option (B) is correct.

78. (C) According to the passage we conclude that after a few days, you can lift the bucket and see the "grass is not as green anymore." So, option (C) is correct.

79. (A) The word dull (adjective) means lacking brilliance or brightness. So, Bright is the opposite of dull.

80. (B) According to passage we conclude that after "a week, the grass will become very dull." So, (B) is the correct answer.

