

# Sample Question Paper

Class VII

Total Questions 51

Time: 1 hour

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## Section A- Logical Reasoning

**Question 1.** Lily likes to change words in the dictionary. If she calls Cat as a Dog, Dog is called Pig, the Pig is called Cow, Cow is called a Monkey, a Monkey is called a Horse, Horse is called Camel, which animal gives us milk?

**Option A:** Cow

**Option B:** Horse

**Option C:** Monkey

**Option D:** Dog

**Question 2.** Complete the series.

0, 1, 4, 13, \_\_, 121

**Option A:** 30

**Option B:** 40

**Option C:** 27

**Option D:** 36

**Question 3.** If A denotes "+", B denotes "x", C denotes "-" and D denotes "÷", then

What is the value of a given expression?

64 D 4 C 2 A 100 B 90

**Option A:** 43

**Option B:** 132

**Option C:** 42

**Option D:** 53

**Question 4.** In the given series, what will be the eighth term? 242, 246, 250.....

**Option A:** 300

**Option B:** 270

**Option C:** 304

**Option D:** 412

**Question 5.** In the following series what number comes next? 1, 7, 13, 25, 37, 55, \_\_\_\_

**Option A:** 62

**Option B:** 73

**Option C:** 77

**Option D:** 80

**Question 6.** Complete the missing part:

Vegetable : Potato :: Reptile :

**Option A:** Monkey

**Option B:** Lion

**Option C:** Ostrich

**Option D:** Lizard

**Question 7.** Complete the problem figure.

|    |    |    |
|----|----|----|
| 1  |    | 2  |
| 24 | 33 | 42 |
| 2  | 1  | 5  |
| 25 | 31 | 45 |

**Option A:** 2

**Option B:** 1

**Option C:** 3

**Option D:** 5

**Question 8.** Complete the following series:

\_ S S R S \_ \_ S S \_ S \_

**Option A:** RSSRR

**Option B:** SRRSR

**Option C:** RRRSR

**Option D:** RSRRS

**Question 9.** Which option will come third when ordered in an English dictionary?

Body

Breaking

Bad

Boring

Between

**Option A:** Body

**Option B:** Breaking

**Option C:** Between

**Option D:** Bad

**Question 10.** Choose the correct mirror image for this when the mirror is in right of the image.



**Option A:**

**Option B:**

**Option C:**

**Option D:**

**Section B- Mathematical reasoning**

**Question 11.** Find the value of  $x$ , if  $6^x + 36^2 = 6^6$

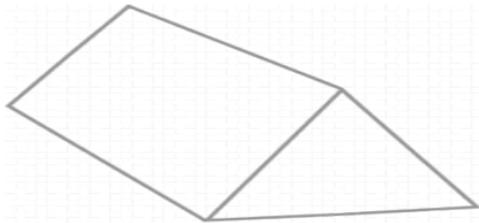
**Option A:** 3

**Option B:** 2

**Option C:** 5

**Option D:** 6

**Question 12.** Find the number of edges and vertices in the given figure:



**Option A:** 10 edges, 7 vertices

**Option B:** 8 vertices, 6 edges

**Option C:** 9 edges, 6 vertices

**Option D:** 6 vertices, 9 edges

**Question 13.** Select the numerical coefficients of the expression:

$$5p^3 - 4q^4 - 10r^2 + 215p^3 - 4q^4 - 10r^2 + 21$$

**Option A:** 5, -4

**Option B:** 21

**Option C:** 5, +4, -10, -21

**Option D:** 5, -4, -10, 21

**Question 14.** When a number is reduced by 7, it becomes 90% of itself. Find the number.

**Option A:** 70

**Option B:** 63

**Option C:** 72

**Option D:** 65

**Question 15.** The mean of 7, 8, 12 and p is 10 and the mean of 16, 3, 12, p and q is 12. Find the value of p + q.

**Option A:** 3

**Option B:** 5

**Option C:** - 3

**Option D:** - 5

**Question 16.** Find the value of v:

$$101.315 - 2.6v = 52.6$$

**Option A:** 17.7365

**Option B:** 17.2365

**Option C:** 18.7365

**Option D:** 18.2568

**Question 17.** Two supplementary angles are in the ratio 8:12, then find the angles.

**Option A:** 60°, 50°

**Option B:** 90°, 120°

**Option C:** 72°, 108°

**Option D:** 60°, 90°

**Question 18.** The length and breadth of a rectangular field are in the ratio 4:3. If the area of the field is 1,452sq.m. Then find the perimeter of the plot.

**Option A:** 154m

**Option B:** 160m

**Option C:** 164m

**Option D:** 158m

**Question 19.** Product of a number and twice the number is  $\frac{338}{361}$ . Find the numbers.

**Option A:**  $\frac{19}{13}$  and  $\frac{38}{13}$

**Option B:**  $\frac{13}{19}$  and  $\frac{26}{19}$

**Option C:**  $\frac{13}{19}$  and  $\frac{6}{19}$

**Option D:**  $\frac{17}{21}$  and  $\frac{16}{21}$

**Question 20.** Ben puts 46 marbles in the first bag. Also in the second bag, he put 12 fewer marbles than thrice the number of marbles in the first bag. Find the number of marbles Ben put in the second bag.

**Option A:** 126

**Option B:** 128

**Option C:** 138

**Option D:** 136

**Question 21.** A shape if rotated at  $180^\circ$  comes back to its original shape. At what angle with respect to the original position, will it again come back to its original shape when rotated?

**Option A:**  $120^\circ$

**Option B:**  $45^\circ$

**Option C:**  $360^\circ$

**Option D:**  $100^\circ$

**Question 22.** Read the statements carefully and state T for true and F for false.

(i) 8 is the solution of  $2y + 6 = 22$ .

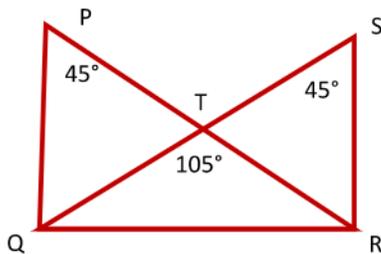
(ii) Subtracting the same number from both sides of the equation change the equation.

(iii) If 7 is the value of p in the equation  $\frac{6p-4}{2} = q$ , then the value of q is 19.

(iv) Adding the same number on both sides of the equation doesn't change the equation.

|                  | (i) | (ii) | (iii) | (iv) |
|------------------|-----|------|-------|------|
| <b>Option A:</b> | T   | F    | F     | T    |
| <b>Option B:</b> | F   | T    | F     | T    |
| <b>Option C:</b> | F   | T    | F     | F    |
| <b>Option D:</b> | T   | F    | T     | T    |

**Question 23.** Find the measure of the  $\angle TQR$ , if  $QT = RT$ .



**Option A:**  $75^\circ$

**Option B:**  $60^\circ$

**Option C:**  $97^\circ$

**Option D:**  $37.5^\circ$

**Question 24.** A washing machine costs \$542.23 and TV costs 213 times the washing machine. Find the cost of T.V.

**Option A:** \$ 1300

**Option B:** \$1200.00

**Option C:** \$1265.20333

**Option D:** \$ 1356.20433

**Question 25.** Select the incorrect option:

**Option A:** A man purchases a product for Rs. 27.50 and sells it for Rs. 28.60. He gains 4%.

**Option B:** A man sold two tables at Rs. 1,995 each. He gained 10% on one and lost 10% on the other. His overall loss was 1%.

**Option C:** The simple interest of the sum of 800 on 5% per annum for 3 years is Rs. 150.

**Option D:** It takes 2 years for the amount of Rs. 600 to yield Rs. 120 as interest at 10 % per annum of simple interest.

## Section C - Science

**Question 26.** Fill in the blanks with correct options:

It is only the \_\_\_\_\_ state of matter that living beings can use directly. Water covers nearly \_\_\_\_\_ of the Earth's surface; the majority of it is in \_\_\_\_\_.

**Option A:** solid, one -half, lakes

**Option B:** liquid, three- fourths, oceans

**Option C:** gaseous, two- thirds, seas

**Option D:** semisolid, three -fifths, the form of ice- caps

**Question 27.** Why do we prefer a convex mirror as a rear-view mirror in shops?

**Option A:** A convex mirror always produces a real image of the objects.

**Option B:** The image formed in a convex mirror is highly diminished or much smaller than the object, due to which a convex mirror gives a wide field of view of the shop.

**Option C:** A convex mirror produces the same size of the image.

**Option D:** A convex mirror produces a large image of an object.

**Question 28.** Magnetism is caused by the \_\_\_\_\_ of electric charges.

**Option A:** Motion

**Option B:** Reaction

**Option C:** Charge

**Option D:** All of the above

**Question 29.** Statement 1: Orange plant goes through an aerobic reaction.

Statement 2: Yeast goes through an aerobic reaction.

**Option A:** Statement one is true.

**Option B:** Statement two is true.

**Option C:** Both statements are true.

**Option D:** Both statements are false.

**Question 30.** Which statement is correct?

Statement 1: Watermetre is used to check the water consumption of a plant.

Statement 2: Potometers are used to measure the consumption of water by a plant.

**Option A:** Statement one is true

**Option B:** Statement two is true

**Option C:** Both statements are true

**Option D:** Both statements are false

**Question 31.** A boy fire a gun and another boy at a distance of 1500 m hears the sound of firing the gun 4s after seeing its smoke. Find the speed of sound.

**Option A:** 375 m/s

**Option B:** 240 m/s

**Option C:** 350 m/s

**Option D:** 400 m/s

**Question 32.** Choose the incorrect match:

**Option A:** Bleaching powder act as a disinfectant.

**Option B:** Sodium palmitate is a food preservative.

**Option C:** Calcium sulphate, a component of the plaster of Paris.

**Option D:** Ammonium sulphate is used as a fertilizer.

**Question 33.** Read the below statements and choose the appropriate option:

Statement 1: Copper hydroxide, magnesium hydroxide and aluminium hydroxide are bases but they are partially soluble or insoluble in water so they are not called alkalis.

Statement 2: All alkalis are bases and vice-versa.

**Option A:** Both statements are true.

**Option B:** Statement 1 is true and statement 2 is false.

**Option C:** Both statements are false.

**Option D:** Statement 1 is false and statement 2 is true.

**Question 34.** Resistance of a conductor does not depend on \_\_\_\_\_.

**Option A:** Length of the conductor

**Option B:** Area of the cross-section of the conductor

**Option C:** Temperature

**Option D:** Pressure

**Question 35.** Two girls L and M are running along the same path. L is 20m ahead of M initially, however, M catches up with L after running 70m. Assuming that both girls are running at constant speeds, what is the ratio of speeds of L and M?

**Option A:** 3:4

**Option B:** 5:7

**Option C:** 6:5

**Option D:** 2:5

**Question 36.** Interpret your answer.

Statement 1- Sanguivores males feed on blood.

Statement 2- Sanguivores females feed on blood.

**Option A:** Statement one is correct.

**Option B:** Statement two is correct.

**Option C:** Both statements are correct.

**Option D:** Both statements are incorrect.

**Question 37.** To dissolve 1 g of copper sulphate powder, a tiny quantity of hot water was added after two drops of diluted sulfuric acid (step I). Beautiful blue crystals separated upon cooling (step II). Both steps I and II are-

**Option A:** physical and chemical changes respectively.

**Option B:** chemical and physical changes respectively.

**Option C:** both physical changes.

**Option D:** different types of chemical change.

**Question 38.** This method of vegetative propagation requires three important elements. It must have a good technique. It includes a sharp knife and healthy plant material. Mango can is the best example. Choose the terms that represent this method.

**Option A:** Tubers and cuttings

**Option B:** Scion and stock

**Option C:** Callus and micro propagation

**Option D:** Bulbs and runner.

**Question 39.** Select the correct match for the adaptive features of animals.

**Option A:** Arctic tern and Siberian crane- hibernation

**Option B:** Fennec fox and elephant- small ears

**Option C:** Monkey and toucan- prehensile tail

**Option D:** Seal and polar bear- blubber

**Question 40.** The pulse rate of a man is 140 beats in two minutes. Calculate its frequency.

**Option A:** 1.3htz

**Option B:** 1.18htz

**Option C:** 1.17htz

**Option D:** 1.2htz

## Section D - English

**Question 41.** Choose the most suitable for the following.

Which is the best way to interrupt a speaker in a group discussion?

**Option A:** Keep quiet now, will you?

**Option B:** Will you let me speak at all?

**Option C:** I'd like to say something here.

**Option D:** I'm going to speak at this point.

**Question 42.** Choose the correct antonym for the given word.

Placid

**Option A:** Boisterous

**Option B:** Joyful

**Option C:** Youthful

**Option D:** Pride

**Question 43.** Complete the given proverbs/phrases

A bird in hand is worth \_\_\_\_\_ in the bush.

**Option A:** two

**Option B:** three

**Option C:** five

**Option D:** four

**Question 44.** Choose the Indirect speech of the given sentence.

He says, "I am going to school."

**Option A:** He says that he is going to school.

**Option B:** He says that he was going to school.

**Option C:** He says that he will go to school.

**Option D:** None of these.

**Question 45.** Choose the correct option to fill in the blank.

She was \_\_\_\_\_ intelligent \_\_\_\_\_ beautiful.

**Option A:** either... or

**Option B:** whether ... or

**Option C:** not only ... but also

**Option D:** none of these

**Question 46.** Choose the correct option to fill in the blank.

I bought a \_\_\_\_\_ paper, \_\_\_\_\_ pencil and \_\_\_\_\_ ink pot.

**Option A:** an, an, a

**Option B:** a, a, the

**Option C:** a, a, an

**Option D:** the, the, an

**Question 47.** Fill in the blank with a suitable option.

The concert was \_\_\_\_\_ fantabulous.

**Option A:** absolutely

**Option B:** extremely

**Option C:** quietly

**Option D:** well

**Question 48.** Choose the correct option to fill in the blank.

He has complete \_\_\_\_\_ in his sister Simran.

**Option A:** kindness

**Option B:** bravery

**Option C:** trust

**Option D:** intelligence

**Question 49.** Choose the correct option to fill in the blank.

It has been seven years since I last \_\_\_\_\_ Spanish.

**Option A:** have spoken

**Option B:** spoke

**Option C:** speak

**Option D:** been spoken

**Question 50.** Choose the Indirect speech of the given sentence.

He says, "I am going to school."

**Option A:** He says that he is going to school.

**Option B:** He says that he was going to school.

**Option C:** He says that he will go to school.

**Option D:** None of these.

## Section E - Emotional Quotient

**Question 51.** Just before the test, your friend hides your notes so that you do not score well. Tell us about how/ what you will be doing under the given situation.

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