



SAMPLE PAPER

Time Allowed : 3 hrs

Based on Class 7 Syllabus

Maximum Marks : 100

## Mathematics

Q1. Which of the following is the value of  $(-12) \times (-2) \times (-5)$ ?

- (a) -120                      (b) 120                      (c) 0                      (d) 1

Answer – (a)

Q2. Which of the following is the simplest form of  $\frac{(-5) + (-7)}{(-2) + (-1)}$  ?

- (a) -12                      (b) 12                      (c) 4                      (d) -4

Answer – (c)

Q3. Which of the following is the equivalent fraction of  $\frac{3}{4}$  with numerator 18 ?

- (a)  $\frac{18}{12}$                       (b)  $\frac{18}{20}$                       (c)  $\frac{18}{4}$                       (d)  $\frac{18}{24}$

Answer – (d)

Q4. Which of the following is the perimeter of the rectangle of length  $\frac{3}{4}$  m & breadth  $\frac{1}{4}$  m?

- (a) 2 m                      (b) 1 m                      (c)  $\frac{3}{8}$  m                      (d) 4 m

Answer – (a)

Q5. Which of the following is the value of  $0.1 \times 51.7$

- (a) 517                      (b) 51.7                      (c) 0.517                      (d) 5.17

Answer – (d)

Q6. Which of the following is the mean of first five natural numbers ?

- (a) 2                      (b) 3                      (c) 4                      (d) 5

Answer – (b)

Q7. An unbiased die is tossed once. Which of the following is the probability of getting an even number?

- (a) 1                      (b)  $\frac{1}{2}$                       (c)  $\frac{1}{3}$                       (d)  $\frac{1}{4}$

Answer – (c)

Q8. A container contains 3 red & 4 black balls. If one ball is selected at random from the container, what is the probability that it is black?

- (a)  $\frac{3}{7}$                       (b)  $\frac{4}{7}$                       (c) 1                      (d) zero

Answer – (b)

Q9. Which of the following is the value of 'm' in the equation  $3m - 14 = 4$

- (a) 4                      (b) 5                      (c) 6                      (d) 7

Answer – (b)

Q10. The sum of three times a number & 11 is 32. Find the number?

- (a) 6                      (b) 7                      (c) 10                      (d) 21

Answer – (b)

Q11. A ray has how many end points?

- (a) one                      (b) two                      (c) three                      (d) zero

Answer – (d)

Q12. What is the sum of the measures of two complementary angles?

- (a)  $90^\circ$                       (b)  $120^\circ$                       (c)  $180^\circ$                       (d)  $105^\circ$

Answer – (a)

Q13. How many altitudes can a triangle have ?

- (a) one                      (b) two                      (c) three                      (d) four

Answer – (c)

Q14. What is the perimeter of the rectangle whose length is 40cm & a diagonal is 41cm?

- (a) 164cm                      (b) 162 cm                      (c) 81cm                      (d) 98cm

Answer – (d)

Q15. Which of the following is the ratio of 3Km to 300m?

- (a) 10:1                      (b) 1:10                      (c) 100 : 1                      (d) 1:100

Answer – (d)

Q16. Rama saves Rs. 400 from her salary. If this is 10% of her salary, what is her salary?

- (a) 40000                      (b) 9000                      (c) 4000                      (d) 10000

Answer – (c)

Q17. What is the value of  $(-7/5) \times (-15/14)$

- (a)  $-3/2$                       (b)  $3/2$                       (c)  $2/3$                       (d)  $-2/3$

Answer – (b)

Q18. The circumference of a circle is 44 cm. What is its radius ?

- (a) 42cm                      (b) 21cm                      (c) 7cm                      (d) 14cm

Answer – (c)

Q19. If each side of a square is 1m, which of the following is its area?

- (a)  $10\text{cm}^2$                       (b)  $100\text{cm}^2$                       (c)  $1000\text{cm}^2$                       (d)  $10000\text{cm}^2$

Answer – (d)

Q20. Which of the following is the value of 'm' in the equation  $3m - 14 = 4$

- (a) 4                      (b) 5                      (c) 6                      (d) 7

Answer – (c)

Q21. What is the sum of  $(3x - 7y + 5z)$  &  $(-2x + 3y)$  ?

- (a)  $5x - 4y$                       (b)  $x - 4y + 5z$                       (c)  $5x - 4y + 5z$                       (d)  $x - 10y + 5z$

Answer – (b)

Q22. A regular pentagon has how many lines of symmetry?

- (a) 3                      (b) 4                      (c) 5                      (d) 6

Answer – (c)

Q23. How many edges are there in a cuboid?

- (a) 3                      (b) 12                      (c) 5                      (d) 6

Answer – ( b )

Q24. Which of the following is the exponential form of '243'

- (a)  $3^2$                       (b)  $2^3$                       (c)  $3^5$                       (d)  $5^3$

Answer – (c)

Q25. How many rational numbers are there between 2 & 4 ?

- (a) zero                      (b) one                      (c) two                      (d) uncountable

Answer – (d)

SCIENCE:

Q26. The mode of nutrition in which organisms make food themselves from simple substances is called.....

- (a) Autotrophic nutrition                      (c) Heterotrophic nutrition  
(b) Saprotrophic nutrition                      (d) All of the above

Answer – (a)

Q27. Some organisms live together and share shelter and nutrients. This is called

- (a) Predation                      (b) Symbiotic relationship                      (c) Autotrophs                      d. Heterotrophs

Answer – (b)

Q28. Mushroom is ( )

- (a) An Autotroph                      (b) Heterotroph                      (c) Saprotrophic                      d. Fungus

Answer – (c)

Q29. The normal temperature of Human body is ( )

- (a)  $40^{\circ}\text{C}$                       (b)  $37^{\circ}\text{C}$                       (c)  $42^{\circ}\text{C}$                       (d)  $35^{\circ}\text{C}$

Answer – (b)

Q30. The process by which heat flows from the hotter end to colder end of an object is called

- (a) Conduction                      (b) Convection                      (c) Radiation                      (d) Vaporisation

Answer – (a)

Q31. Give the chemical name of Lime water

- (a) Calcium hydroxide                      (c) Magnesium hydroxide  
(b) Ammonium hydroxide                      (d) Sodium hydroxide

Answer – (a)

Q32. The solutions which do not change the colour of either red or blue litmus are known as  
(a) Acid Solutions (b) Base Solutions (c) Neutral Solutions (d) indicator

Answer – (c)

Q33. The process of depositing a layer of one metal over another metal surface to protect it from rusting is called  
(a) Galvanisation (b) Crystallisation (c) amalgamating (d) Neutralisation

Answer – (a)

Q34. The rotting dead matter in the soil is called \_\_\_\_\_.  
(a) Humus (b) Salt (c) Sugar (d) Protein

Answer – (a)

Q35. An adult human being at rest breathes in and out for \_\_\_\_\_ times in a minute  
(a) 15-18 (b) 20-25 (c) 10-15 (d) 50-60

Answer – (a)

Q36. Which organism breathes through its skin  
(a) Cat (b) Human beings (c) Dog (d) Earthworm

Answer – (d)

Q37. The fluid part of the blood is called ( )  
(a) Plasma (b) RBC (c) WBC (d) Blood Platelets

Answer – (a)

Q38. The vascular tissue for the transport of water and nutrients in the plant is called  
(a) Xylem (b) Phloem (c) Tissue (d) Plasma

Answer – (a)

Q39. An example of Oscillatory motion is  
(a) Motion of a cycle wheel (c) Movement of a car on a straight road  
(b) Motion of earth around the sun (d) Motion of a swing.

Answer – (d)

Q40. Light travels in  
(a) Curved lines (b) In circular path (c) In straight line (d) Zig-zag path

Answer – (c)

Q41. WWTP stands for

- a. Waste Water Therapy Plant
- b. Waste Water Travel Plant
- (c) Waste Water Treatment Plant
- (d) Waste Water Tremendous Plant

Answer – (c)

Q42. \_\_\_\_\_ failure can be treated by the method of Dialysis.

- (a) Heart
- (b) Eye
- (c) Kidney
- (d) Liver

Answer – (c)

Q43. The item that is not a product of Forest

- (a) Sealing Wax
- (b) Honey
- (c) Wood
- (d) Salt

Answer – (d)

Q44. The process of ground water getting stored between the layers of hard rock below the water table is known as .....

- (a) Infiltration
- (b) Aquifer
- (c) Water table
- (d) Bawri

Answer – (b)

Q45. Type of mirror that is used as a rear-view mirror in case of vehicles is

- (a) Concave mirror
- (b) convex mirror.
- (c) Plane mirror
- (d) None of the

Answer – (a)

Q46. When an object is placed between the Focus and centre of curvature of concave mirror, then

- (a) Real
- (b) Inverted
- (c) Enlarged
- (d) All of the above

Answer – (d)

Q47. Which of the following relations is correct?

- (a) Speed = Distance X Time
- (b) Speed = Time/Distance
- (c) Speed = Distance/Time
- (d) Speed = 1/Distance X Time

Answer – (c)

Q48. Bryophyllum can reproduce by its

- (a).Stem                      (b)Leaves                      (c)Roots                      (d)flower  
Answer – (a)

Q49.Aquatic animals excrete cell waste as  
(a)Ammonia                      (b) Oxygen                      (c)Carbon dioxide                      (d) Nitrogen

Answer – (d)

Q50.The blood vessels which carry carbon dioxide –rich blood from all parts of the body back to the heart are called  
(a)Arteries                      (b)Veins                      (c)RBC                      (d)Platelets

Answer – (b)

### General Knowledge:

Q 51 .What is the capital of Venezuela ?  
(a) Rio De Janeiro   (b) Buenos Aires   (c) La Paz   (d) Caracas

Answer – d

Q 52.Martina Hingis is associated with which sport ?  
(a) Gymnastics   (b) Softball   (c) Tennis   (d) Volleyball

Answer – c

Q 53.Who invented the Radio ?  
(a) Guglielmo Marconi   (b) Albert Einstien   (c) Michael Faraday   (d) Madame Curie

Answer –a

Q 54.Who is commonly referred to as the father of Indian Aviation ?  
(a) Ratan Tata   (d) G.K Birla   (c) J.R.D Tata   (d) Dhirubhai Ambani

Answer – c

Q 55.Which of the following is not a Bharat Ratna recipient ?  
(a) M.G Ramachandran   (b) Dilip Kumar   (c) (C)N.R Rao   (d) Ustad Bismillah Khan

Answer – b

Q 56.Who is the creator of the fictional detective character “Feluda” ?

- (a) Bankim Chandra Chattopadhyay (b) Rahul Bose (c) Satyajit Ray (d) Hrishikesh Mukherjee

Answer – c

Q 57. Who designed the city of Chandigarh ?

- (a) Nek Chand (b) Le Corbusier (c) Charles Correa (d) Satish Gujral

Answer – b

Q 58. What does NIC stand for ?

- (a) National Information Centre (b) National Indian Commission  
(c) National Informatics Centre (d) National Industry Council

Answer – c

Q 59. Which is the only animal in the world to have four horns ?

- (a) The African bull (b) Indian bull (c) Chausingha (d) Bison

Answer – c

Q 60. Napoleon I, the French emperor built an arch to celebrate his victories. It is the largest victory arch. Name it ?

- (a) Victory Arch (b) Arc de Triomphe (c) Panthéon (d) Arch of Titus

Answer – b

Q 61. With which sport is Billie Jean King associated ?

- (a) Badminton (b) Squash (c) Tennis (d) Athletics

Answer – c

Q 62. Gregory Peck, the famous Hollywood actor did not act in which of these movies ?

- (a) Duel in the Sun (b) The Omen (c) Roman Holiday (d) Come September

Answer – d

Q 63. Who is known as the Man of Steel ?

- (a) Superman (b) Spiderman (c) Shaktiman (d) Iron man

Answer – a



Q 64. Who wrote the famous novel Goodan ?

(a) Harivansh Rai Bachchan (b) Munshi Premchand

(c) Bhisham Sahni (d) Devaki Nandan Khatri

Answer – b

Q 66 . Who is the warrior in Mahabharata war who fights against the Pandavas but is the son of Kunti ?

(a) Krishna (b) Abhimanyu (c) Karan (d) Sahdeva

Answer – c

Q 67. In which year did the Titanic sink ?

(a) 1915 (b) 1920 (c) 1921 (d) 1912

Answer - d

Q 68 . Shivaji Ganeshan, the famous actor acted in maximum films in which language ?

(a) Telugu (b) Kannada (c) Tamil (d) Malayalam

Answer - c

Q 69. Which of the following country has never been ruled by a foreign country ?

(a) Philippines (b) Sri Lanka (c) Nepal (d) United States of America

Answer : c

Q 70. Where is Lake Manasarovar located ?

(a) Jammu & Kashmir (b) Tibet (c) Ladakh (d) Himachal Pradesh

Answer : b

Q 71. iPhone is a product of which company ?

(a) Microsoft Corporation (b) Apple Inc (c) Nokia (d) Google

Answer : b

Q 72. What does "FM" stand for in FM Radio ?

(a) First Module (b) Frequency Master

(c) Frequency Modulation (d) Frequency Management

Answer – c

Q 73. Which of the following was a popular board game in Ancient Egypt ?

(a) Chess (b) Monopoly (c) Senet (d) Pachisi

Answer – c

Q 74. Which is the largest gland in the human body ?

(a) Liver (b) Pancreas (c) Thyroid (d) Pituitary

Answer – a

Q 75. Who is the youngest Indian to climb Mount Everest ?

(a) Sumit Nagpal (b) Kapil Deshpande (c) Arjun Vajpai (d) Raghav Joneja

Answer - d

### Mental Ability:

In the following questions, you have to find the two words, one from each group, that will together make a new and meaningful word. The word from the first group should always come first.

For Example.

1	2	3
BLACK	ALL	TOP

P	Q	R
OVER	BIRD	TOY

(a) 3R (b) 2Q (c) 1Q (d) 1P

Answer : c - BLACKBIRD

The two relevant words are BLACK and BIRD, because when joined together, in that order, these two words make a new word : BLACKBIR(D)

Q 76.

X	Y	Z
DIRT	MILE	HOUSE

1	2	3
WIFE	HOPE	GO

(a) Z1 (b) X2 (c) Y3 (d) Z2

Answer : a – HOUSEWIFE

Q77.

P	Q	R
HER	IN	SO

1	2	3
OUT	BAR	TEND

(a) R2 (b) P3 (c) R1 (d) Q3

Answer : d – INTEND

Q 78.

P	Q	R
BALL	IS	ASH

1	2	3
OR	GOT	LAND

(a) P1 (b) Q3 (c) R3 (d) P2

Answer : b – ISLAND

Q 79.

1	2	3
FENCE	WALL	TREE

X	Y	Z
COAT	PIPE	PAPER

(a) 3X (b) 2Z (c) 1Y (d) 3Y

Answer : b – WALLPAPER

Q 80.

P	Q	R
ALL	FOR	CAN

1	2	3
COVER	TIN	EVER

(a) P3 (b) P1 (c) Q3 (d) R2

Answer : c – FOREVER

In the following questions, two words are given. You are required to choose one letter from the word on the left, which if removed and arranged in the word on the right, will make 2 new words.

Q 81. Identify the letter to be moved from the first word in the two words given below.

**STOOP**      **FLAT**

(a) T (b) P (c) O (d) S

Answer : (c) – O

The first step is to remove each letter of the first word and see if a valid word remains  
STOO, STO, STOP, SOOP, TOOP

In this case it was not until we removed the third letter, O, that a valid word remained, STOP

Now if we place O after FL ,we get a new word FLOAT.

Hence, the two new words are `STOP` and `FLOAT`

Q 82.

**WET**                      **EAR**

(a) E (b) T (c) W (d) A

Answer : (b) T

The two new words are `WE` and `TEAR`

Q 83.

**COAT**                      **FIR**

(a) C (b) T (c) M (d) A

Answer : (d) A

The two new words are `COT` and `FAIR`

Q 84.

**STARE**                      **HOP**

(a) R (b) A (c) E (d) T

Answer : (c) E

The two new words are `STAR` and `HOPE`

Q 85.

**CLIMB**                      **RASH**

(a) I (b) C (c) M (d) B

Answer : (b) C

The two new words are `LIMB` and `CRASH`.

Q 86.

**SCARE**

**STEP**

(a) A (b) R (c) S (d) E

Answer : (c) S

The two new words are `CARE` and `STEPS`

Q 87. If  $P = 5$ ,  $Q = 6$ ,  $R = 9$ , and  $S = 8$  then  $P + R - Q = (?)$

(a) Q (b) R (c) S (d) P

Answer : (c)

$$P + R - Q = 5 + 9 - 6 = 14 - 6 = 8 \rightarrow S$$

Q 88. If  $V = 4$ ,  $W = 3$ ,  $X = 7$ ,  $Y = 6$ , and  $Z = 5$  then  $Y \times Y \div V - W = (?)$

(a) X (b) V (c) Y (d) W

Answer : (c)

$$Y \times Y \div V - W = (6 \times 6) \div 4 - 3 = 9 - 3 = 6 \rightarrow Y$$

Q 89. If  $P = 7$ ,  $Q = 11$ ,  $R = 14$ ,  $S = 22$ , and  $T = 24$ , then what is  $Q \times R \div P - Q$  ?

(a) S (b) Q (c) T (d) R

Answer : (b)

$$Q \times R \div P - Q = 11 \times 14 \div 7 - 11 = 11 \times 2 - 11 = 11 = 22 - 11 = 11 \rightarrow Q$$

Q 90. If  $P = 13$ ,  $Q = 16$ ,  $R = 17$ ,  $S = 25$ , and  $T = 37$ , then what is  $P + Q + S - T$  ?

(a) P (b) Q (c) R (d) S

Answer : (c)

$$P + Q + S - T = 13 + 16 + 25 - 37 = 54 - 37 = 17 \rightarrow R$$

Q 91. Find the odd one out among the pair of alphabets.

(a) XW (b) FG (c) ML (d) PO

Answer : (b)

See the order of the given alphabets?

- (a)  $X \leftarrow W$
- (b)  $F \rightarrow G$
- (c)  $M \leftarrow L$
- (d)  $P \leftarrow O$

All the pairs contain two consecutive letters in reverse alphabet order, except for option (b)  
So, option (b) is the odd one.

Q 92 . Find the odd one out.

- (a) ZA (b) XC (c) BY (d) VE

Answer : (c)

Equal number of alphabets between the two but order of option (c) is different from others.

Q 93. Identify the pair which is different from others.

- (a) KLM (b) ABC (c) DEF (d) TSR

Answer : (d) – The letters are in reverse order

Q 94. Find the odd one out.

- (a) 15, 9 (b) 15, 12 (c) 30, 18 (d) 45, 27

Answer : (b)

In all others, the ratio of the numbers is 5 : 3

Q 95. Find the odd one out.

- (a) 343 (b) 729 (c) 1331 (d) 125

Answer : (b)

The number is not a perfect cube.

Q 96. Find the odd one out.

- (a) 7D3 (b) 9B7 (c) 8D4 (d) 8F3

Answer : (d)  $8 - 3 = 5$  and 5<sup>th</sup> letter in alphabet is E and not F.

Q 97. Find the matching pair.

PASS : QBTT :: FAIL : ?

- (a) GJBM (b) GBJM (c) MBJG (d) MJBG

Answer : (b)

+1		+1
P → Q		F → G
+1		+1
A → B	Similarly	A → B
+1		+1
S → T		I → J
+1		+1
S → T		L → M

Hence the matching pair is (b)

Q 98. Find the matching pair.

Dda : aDD :: Rrb : ?

- (a) BBR (b) bRR (c) RRR (d) DDA

Answer : (b)

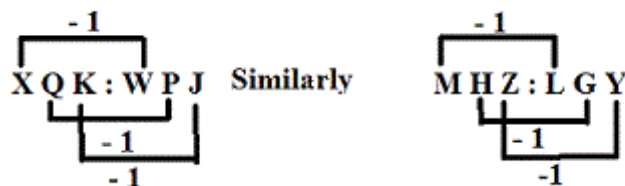
The order of the letters of the first group is reversed and the middle small letter is replaced by a capital letter to obtain the second group.

Q 99. Find the correct set of letters which replaces the “?”

XQK : WPJ :: MHZ : ?

- (a) KFX (b) NIB (c) LGY (d) MIZ

Answer : (c)



Q 100. Find the correct number which replaces the “?”

6 : 18 :: 4 : ?

- (a) 2 (b) 6 (c) 8 (d) 14

Answer : (c) The Logic is  $X : X^2$  i.e.  $\frac{6^2}{2} = \frac{36}{2} = 18$  and  $\frac{4^2}{2} = \frac{16}{2} = 8$