



SAMPLE PAPER-II

Time Allowed : 3 hrs

Based on Class 7 Syllabus

Maximum Marks : 100

MATHEMATICS

Q1. In addition and subtraction of two integers , sign of the answer depends upon

- (a) Smaller number (b) Their difference (c) Their sum (d) Greater numerical value

Answer : (d)

Q2. Sum of two negative number is always

- (a) Positive (b) Negative (c) 0 (d) 1

Answer : (b)

Q3. Sum of -19 and -21 is

- (a) -40 (b) 40 (c) 2 (d) -2

Answer : (a)

Q4 . What will be the additive inverse of -5

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

Answer : (d)

Q5. Successor of -1 is

- (a) -2 (b) 0 (c) 1 (d) 2

Answer : (b)

Q6. Identify the property used in the following: $2 \times 13 + 8 \times 13 = (2+8) \times 13$

- (a) Commutative (b) Closure (c) Associative (d) Distributive

Answer : (d)

Q7. Which property is reflected in the following: $7 \times 5 = 5 \times 7$

- (a) Closure (b) Commutative (c) Associative (d) Distributive

Answer : (b)

Q8. Which of the following is not true

- (a) $0 \div 2 = 0$ (b) $-25 \div 5 = -5$ (c) $12 \div 0 = 12$ (d) $4 \div 1 = 4$

Answer : (c)

Q9 . Which of the following does not represent pair of integer (a, b) such that $a \div b = 2$

- (a) (-6 , -3) (b) (-2 , 1) (c) (-10 , -5) (d) (8 , 4)

Answer : (b)

Q10. Product of two negative integers is always

- (a) Always negative (b) Always positive (c) Either positive or negative (d) 0

Answer : (b)

Q11. Absolute value of -11 is

- (a) -10 (b) 10 (c) 11 (d) 0

Answer : (c)

Q12. $-16 \times (-1)$ is equal to

- (a) -17 (b) 17 (c) 16 (d) -16

Answer : (c)

Q13. Which of the following fraction has numerator 5

- a) $\frac{2}{5}$ b) $\frac{5}{7}$ (c) $1\frac{5}{7}$ (d) $7\frac{1}{5}$

Answer : (b)

Q14. What fraction does the shaded portion in the adjoining fig. represents.



a) $\frac{5}{2}$

b) $\frac{3}{5}$

(c) $\frac{2}{5}$

(d) $\frac{5}{3}$

Answer : (c)

Q15. What is the value of $\frac{2}{7} + \frac{3}{7}$

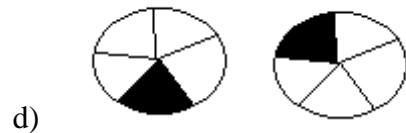
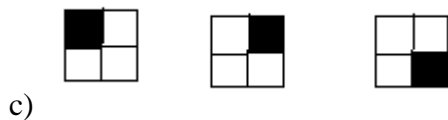
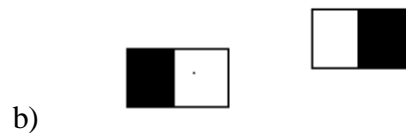
a) $\frac{5}{14}$

b) $\frac{5}{7}$

(c) $\frac{6}{7}$

(d) $\frac{35}{14}$

Answer : (b)

Q16. Which of the following drawing shows $2 \times \frac{1}{5}$ 

Answer : (d)

Q17. The reciprocal of $1\frac{2}{3}$ is

(a) $\frac{3}{2}$

(b) $1\frac{3}{2}$

(c) $\frac{5}{3}$

(d) $\frac{3}{5}$

Answer : (d)

Q18. The value of 2.71×5 is

(a) 135.5

(b) 1355

(c) 13.55

(d) 1.355

Answer (c)

Q19 The mean of the first five whole number is _____ .

a. 2

b. 5

c. 3

d. 4

Answer : (a)

Q20. A cricketer scores the following runs in eight innings :

58 , 76 , 40 , 35 , 46 , 45 , 0 , 100

What will be their mean score ?

- a. 400 b. 50 c. 200 d. 100

Answer :(b)

Q21. The perimeter of regular polygon is

- (a) no. of sides \times lengths of one side (b) no. of sides + lengths of one side
(c) no. of sides – lengths of one side (d) no. of sides \div lengths of one side

Answer : (a)

Q.22. If the radius of pipe is 1 cm , the circumference of pipe will be

- (a) 62.8 cm (b) 6.28 cm (c) 62.8 cm² (d) 6.28 cm

Answer : (b)

Q.23. The circumference of a circle is

- (a) $\pi \times r$ (b) $\pi \times r^2$ (c) $\pi \times 2r$ (d) $\pi + 2r$

Answer : (c)

Q24: Write the expression for the statement: the sum of three times x and 11

- (a) $x+3+11$ (b) $3x+11$ (c) $3+11x$ (d) $3x-11$

Answer : (b)

Q25: The expression for sum of numbers a and b subtracted from their product is

- (a) $a+b-ab$ (b) $ab-a+b$ (c) $ab-(a+b)$ (d) $ab + a - b$.

Answer : (c)

SCIENCE

Q26.The components that are necessary for our body are called ()

- a) Vitamins c) Nutrients
b) Pulses d) Minerals

Answer : (c)

Q27.The bacterium which provides nitrogen to the leguminous plants is

- a) Rhizobium
- b) Yeast
- c) Fungi
- d) Lichens

Answer : (a)

Q28.Pitcher is an example of

- a) Insectivorous plant
- b) Leguminous plant
- c) Algae
- d) Fungi

Answer : (a)

Q29.Green colour of the plant is due to the presence of

- a) Oxygen
- b) Carbon dioxide
- c) Nitrogen
- d) Chlorophyll

Answer : (d)

Q30.Which of the following does not yield wool?

- a) Yak
- b) Camel
- c) Goat
- d) Woolly dog

Answer : (d)

Q31.Pashmina shawls are found in

- a) South America
- b) Kashmir
- c) South Africa
- d) Gujarat

Answer : (b)

Q32.The unit of measurement of Temperature is

- a) Meter
- b) Kilogram
- c) Degree Celsius
- d) Second

Answer : (c)

Q33. The normal temperature of Human body is

- a) 40 °C
- b) 37 °C
- c) 42 °C
- d) 35 °

Answer : (b)

Q34.In case of _____ the cool air moves from the land towards the sea

- a) Land breeze
- b) sea breeze
- c) Ice breeze
- d) sand breeze

Answer : (a)

Q35.Acids are

- a) Sour in taste
- b) Sweet in taste
- c) salty in taste
- d) Bitter in taste

Answer : (a)

Q36.Give the chemical name of Lime water

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

Answer : (a)

Q37.Litmus paper (purple colour) in distilled water when added to an acid changes to

- a) Red
- b) Blue
- c) Green
- d) Violet

Answer : (a)

Q38.The sting of an ant contains _____.

- a) Hydrochloric acid
- b) Formic acid
- c) sulphuric acid
- d) Ethanoic acid

Answer : (b)

Q39.The effect of sting of an ant can be neutralised by rubbing with

- a) Calcium carbonate
- b) Sodium Carbonate
- c) Sodium hydrogen carbonate
- d) Calcium chloride

Answer : (c)

Q40.When carbon dioxide is passed through lime water , then lime water becomes

- a) milky
- b) shiney
- c) silvery
- d) Golden yellow

Answer : (a)

Q41. Brown colour of the apple after cutting is

- a) physical change
- b) chemical change
- c) no change
- d) biological change

Answer : (b)

Q42.The Department which prepares weather report is

- a) Telecom Department
- b) Electrical Department
- (c)Meteorological Department
- (d)Civil Department

Answer : (c)

Q43.The amount of humidity in the atmosphere is a measure of _____in air

- a) Heat
- b) Temperature
- c) Chemicals
- d) Moisture

Answer : (d)

Q44.The places where the sun does not rise for six months and does not set for the other six months are

- a) Polar regions
- b) Equator Regions
- c) Northern regions
- d) Southern Regions

Answer : (a)

Q45.The change in shape of a hot tin can when pored with cold water on it is due to the

- a) pressure inside the can is less than that outside

- b) pressure inside the can is more than that outside
- c) pressure outside the can is same as that inside
- d) Pressure inside the can is equal to the atmospheric pressure

Answer : (a)

Q46. Breaking down of rocks by the action of wind and climate is called _____

- a) Weathering
- b) Soil vegetation
- c) Cultivating
- d) Percolation

Answer : (a)

Q47. Taking in air rich in oxygen into the body is called _____

- a) Respiration
- b) Inhalation
- c) Exhalation
- d) Breathing

Answer : (b)

Q48. 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) 50-6

Answer : (a)

Q49. The blood vessels which carry oxygen-rich blood from the heart to all parts of the body are called

- a) Arteries
- b) Veins
- c) RBC
- d) WBC

Answer : (a)

Q50. Resting person usually has a pulse rate between

- a) 72 and 80 beats per minute
- b) 82 and 90 beats per minute
- c) 62 and 70 beats per minute
- d) 52 and 60 beats per minute

Answer : (a)

GENERAL KNOWLEDGE

Q.51.What do the letters MM stand for in MMS ?

a.Media Message b.Multiple Messaging c.Multimedia Messaging d.Maximum Messaging

Answer – c

Q.52.Iraq invaded a country in 1990,which led to the Gulf War.Which country was it ?

a.Saudi Arabia b.Iran c.Syria d.Kuwait

Answer – d

Q.53.In which city in Germany was a wall built to seprate the Eastern & Western parts of the city ?

a.Munich b.Berlin c.Frankfurt d.Cologne

Answer – b

Q.54.Who is popularly known as the King of Rock n Roll ?

a.Frank Sintara b.Michael Jackson c.Elvis Presley d.David Bowie

Answer – c

Q.55. Who is known as the architect of the Indian Constitution ?

a.Dr B R Ambedkar b.Shri C Rajagopalchari c.Maulana Azad d.Raja Ram Mohan Roy

Answer - a

Q.56.The anti biotic Penicillin was created by _____.

a.Madam Curie b.Ronald Ross c.Alexander Fleming d.Christain Bernard

Answer - c

Q.57.The disease Jaundice affects which human organ?

a.Lungs b.Liver c.Heart d.Pancreas

Answer – b

Q.58.Who is famous for the Laws of Motion ?

a.Alfred Noble b.Michael Faraday c.Issac Newton d.Albert Einstein

Answer – c

Q.59.Who is the inventor of the Bicycle Tyre ?

a.C.Biro b.J.B Dunlop c.Pascal d.Macmillan

Answer - b

Q.60.A periscope is used in _____.

a.Aeroplanes b.Ships c.Submarines d.Space Shuttles

Answer – c

Q.61.The Meenakshi Temple is situated in which city ?

a.Thiruvanthapuram b.Madurai c.Hospet d.Vijaywada

Answer – b

Q.62.Sanchi ,which is famous for the Buddhist Stupa is located in which state ?

a.Bihar b.Uttar Pradesh c.Chattisgarh d.Madhya Pradesh

Answer – d

Q.63.What is the capital of Assam?

a.Guwahati b.Dibrugarh c.Dispur d.Imphal

Answer – c

Q.64.Which is the smallest planet in our solar system ?

a.Venus b.Mars c.Mercury d.Earth

Answer – c

Q.65.Captain Haddock appears with which cartoon character ?

a.Superman b.Captain America c.Batman d.Tintin

Answer – d

Q.66.Who is the author of the book-A tale of two cities ?

a.Charles Dickens b.Emily Bronte c.William Shakespeare d.George Bernard Shaw

Answer –a

Q.67.Ustad Zakir Hussian is a famous _____player ?

a.Sitar b.Tabla c.Shennai d.Guitar

Answer - c

Q68.Who is the current Secretary General of the United Nations ?

a. Kofi Annan b.Boutros Boutros Ghali c.Ban Ki-Moon d.Trygve Lie

Answer – c

Q.69. Which is the most abundant metal on Earth ?

- a. Iron b. Silver c. Copper d. Aluminium

Answer – d

Q.70. Which is the only planet that rotates clockwise ?

- a. Earth b. Saturn c. Uranus d. Jupiter

Answer – c

Q.71. Who was the first Indian to win the Miss World Title ?

- a. Aishwarya Rai b. Sushmita Sen c. Dia Mirza d. Reita Faria

Answer – d

Q.72. Who was the first Indian Tennis player to reach a Wimbledon Singles Semi Final ?

- a. Leander Paes b. Mahesh Bhupathi c. Vijay Amritraj d. Ramnathan Krishnan

Answer – d

Q.73. Which animal is a part of the sport-Equestrian?

- a. Camel b. Horse c. Dog d. Deer

Answer – b

Q.74. What was the name of the space shuttle that Kalpana Chawla last travelled on ?

- a. Columbia b. Endeavour c. Apollo d. Discovery

Answer – a

Q.75. In which state are the famous Jog Falls situated ?

- a. Andhra Pradesh b. Karnataka c. Kerala d. Gujarat

Answer – b

MENTAL ABILITY

In the following questions, you are requested to create a new meaningful word out of the given two groups of words. You have to take one word from each group, with the first word coming from the first group.

Q.76.

1	2	3
GRASS	TREE	POST

X	Y	Z
PAT	AGE	GREEN

- (A) 1Y (B) Z2 (C) 3Y (D) 2X

Answer : (C)

The word is POSTAGE

Q. 77.

X	Y	Z
MISS	OVER	TIME

1	2	3
TAKE	LIE	LIFE

- (A) X1 (B) 3Z (C) Y1 (D) Y2

Answer : (C)

The word is OVERTAKE

Q. 78.

1	2	3
HIGH	DARK	SNOW

X	Y	Z
LIGHT	TIN	OVER

- (A) 2X (B) 3Z (C) 1X (D) 1Y

Answer : (C)

The word is HIGHLIGHT

Q. 79.

A	B	C
CLIP	HANG	PLUG

1	2	3
NO	IN	OR

- (A) B1 (B) B3 (C) A1 (D) C2

Answer : (D)

The word is PLUG IN

Q. 80.

P	Q	R
TAIL	RING	HEAD

1	2	3
JUNIOR	MASTER	BREAK

- (A) P1 (B) R2 (C) Q3 (D) R1

Answer : (B)

The word is HEADMASTER

In the following questions. Certain letters stand for certain numbers. Based on this relationship, work out the correct answer.

Q. 81. If $P = 7$, $Q = 8$, $R = 14$, and $S = 15$ then $P + S - Q = (?)$

- (A) S (B) R (C) Q (D) P

Answer : (B)

$$P + S - Q = 7 + 15 - 8 = 22 - 8 = 14 \quad \boxed{R}$$

Q. 82. If $P = 3$, $Q = 9$, $R = 6$, $S = 36$, and $T = 3$, then $\frac{Q \times T}{P} = (?)$

- (A) R (B) S (C) Q (D) P+T

Answer : (C)

$$\frac{Q \times T}{P} = \frac{9 \times 3}{3} = 9 \quad \boxed{Q}$$

Q. 83. If $P = 1$, $Q = 4$, $R = 5$, $S = 8$, and $T = 12$, then $T - S + P = (?)$

- (A) $R \times Q$ (B) $T \div Q$ (C) $Q + P$ (D) $S \times P$

Answer : (C)

$$T - 5 + P = 12 - 8 + 1 = 5 \rightarrow =$$

Q.84. $P = 2, Q = 3, R = 4, S = 5,$ and $T = 10,$ then what is $R \times T \div S + P$?

- (A) $S \times P$ (B) $R + 5$ (C) $T \div P$ (D) $P + R + Q$

Answer : (A)

$$R \times T \div S + P = 4 \times 10 \div 5 + 2 = 4 \times 2 + 2 = 10 \quad \boxed{T} \quad \boxed{S \times P}$$

Q.85. $4 \times 5 \times 5 = 33 + (?) + 32$

- (A) 20 (B) 35 (C) 15 (D) 40

Answer : (B)

$$4 \times 5 \times 5 = 33 \quad \boxed{35} + 32 . \text{ Both sides total } 100$$

Study the given information carefully and answer the questions (86-90) that follows :-

- (i) A, B, C, D, E, F and G are sitting on a wall and all of them are facing east.
- (ii) C is on the immediate right of D.
- (iii) B is at an extreme end and has E as his neighbour.
- (iv) G is between E and F.
- (v) D is sitting third from the south end

Q.86. Who is sitting to the right of E ?

- (A) A (B) C (C) G (D) F

Answer : (C)

G is sitting to the right of E

Q.87. Which of the following pairs of people are sitting at the extreme ends ?

- (A) A and B (B) A and E (C) C and B (D) F and B

Answer : (A)

A and B are sitting at the extreme ends.

Q.88. Name the person who should change place with C such that he gets the third place from the north end.

- (A) E (B) F (C) G (D) D

Answer : (C)

G should change place with C to make it third from north.

Q.89. Immediately between which of the following pairs of people is D sitting.

- (A) A and C (B) A and F (C) C and E (D) C and F

Answer : (D) D is sitting between C and F

Q.90. Which of the condition (i) to (v) given is not required to find out the place in which A is sitting ?

- (A) (i) (B) (ii) (C) (iii) (D) All are required

Answer : (D)

All the statements are required to determine the correct sequence.

Explanation for the above :

C is to the right of D

D is third from south. So, B will be at the extreme end from north because it should have E as its neighbour. G is between E and F. So, the sequence is :

B →
E →
G →
F → East
D →
C →
A →

Q.91. Five children are sitting in a row. S is sitting next to P but not T. K is sitting next to R who is sitting on the extreme left and T is not sitting next to K. Who are sitting adjacent to S ?

(A) K and P (B) R and P (C) P (D) P and T

Answer : (D)

S is sitting next to P. So, the order S,P or P, S is followed. K is sitting next to R. So, the order R, K is followed because R is on the extreme left. T is not next to P or K.

So, the arrangement will be R, K, P, S, T

Clearly, P and T are sitting adjacent to S.

Q.92. How many numbers are there which are divided by 5 and followed by the number divided by 3 in the following series ?

1 5 2 6 5 2 5 1 9 5 1 3 5 6

(A) 1 (B) 2 (C) 3 (D) 4

Answer : (A)

1 5 2 6 5 2 5 1 9 5 1 3 5 6

Q.93. How many numbers are there which are divided by an even number and followed by the number which is divided by an odd number in this series ?

5 6 7 2 5 9 2 4 9 3 6 4 3 9 2 1 0 2 1 5 8 2

(A) 1 (B) 2 (C) 4 (D) 6

Answer : (D)

5 6 7 2 5 9 2 4 9 3 6 4 3 9 2 1 0 2 1 5 8 2

Q.94. Find the total number of c's followed by a vowel in the sequence ?

b c c c d e e c e a c e a c e a b c a b c a c a c a c b c

(A) 4 (B) 6 (C) 7 (D) 8

Answer : C

b c c c d e e c e a c e a c e a b c a b c a c a c a c b c

Q.95. Which one different from the others ?

- (A) DfH (B) MoQ (C) UwY (D) lnP

Answer : (D)

In other options, only the alphabet in the centre is of lower case. But in option (D) letter 'l' on the left is also in lower case. Hence (D) is the odd one out.

Q.96. Find the one which does not belong to the group below.

- (A) 64 (B) 84 (C) 16 (D) 36

Answer : (B)

- (A) $8 \times 8 = 64$
(B) $4 \times 4 = 16$
(C) $6 \times 6 = 36$
(D)

Option (B) cannot be written as the product of a number multiplied by itself. Hence, (B) is the odd one out.

Q.97. Find the odd one out.

- (A) 31 (B) 41 (C) 51 (D) 61

Answer : (C) all others are prime numbers.

Q.98. Find the odd one out.

- (A) 12 (B) 13 (C) 15 (D) 18

Answer : (B)

This is the only prime number.

Q.99. What comes next in the series below ?



- (A) QS (B) QR (C) RS (D) ST

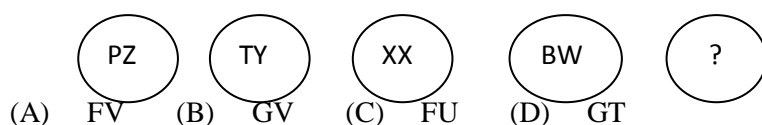
Answer : (A)

The first letter in each set is moved by 3 letters to get the next letter ie $A + 3 = E$, then, $E + 3 = I$ and so on.

The second letter in each set also moves by 3 letters. $C + 3 = G$, $G + 3 = K$

Hence Q S is the correct option.

Q.100 What comes next in the series below ?



- (A) FV (B) GV (C) FU (D) GT

Answer : (A)

The first letter moves forward by 3 and the second one moves back by one.