

SAMPLE PAPER– 1

ACADEMIC SESSION : 2020-21

FOR CLASS VIII MOVING STUDENT

Time : 1½ Hr.

Negative Marking - 0.25

Maximum Marks : 60

GENERAL INSTRUCTIONS

1. Each question carry 1 marks.
2. Blank papers, clip boards, log tables, slide rule, calculators, mobile or any other electronic gadgets in any form is not allowed.
3. Write your Name and Roll No. in the space provided in the bottom of this booklet.
4. Before answering the paper, fill up the required details in the blank space provided in the answer sheet.
5. Do not forget to mention your roll number neatly and clearly in the blank space provided in the answer sheet.
6. No rough sheets will be provided by the invigilators. All the rough work is to be done in the blank space provided in the question paper.
7. In case of any dispute, the answer filled in the OMR sheet available with the institute shall be final.
8. Post exam Answer Key will be declared. Correction in Answer Key will be accepted till next 36 hours after which no correction will be entertained.



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1. Solve : $[167 + 2\{23 \times (-3) - 7(48 \div 3 - 14)\}]$
 (A) 1 (B) 57
 (C) -1 (D) 84
2. The average temperature of first 4 days of a week is 35°C and that of the last 3 days is 42°C . The average temperature of the week is:
 (A) 39°C (B) 38°C
 (C) 40°C (D) 39.3°C
3. Ekta drives a car with a speed of 48 km./hr. and covers a fixed distance in 10 hrs., if the same distance is to be covered in 8 hrs., How much speed should Ekta increase.
 (A) 60 km/hr. (B) 36 km/hr.
 (C) 24 km/hr. (D) 12 km/hr.
4. Nitin started a business with Rs. 10,000 and after 4 months shailesh joins the business by investing Rs. 12,000. If the total profit is Rs. 10,800 then profit share of shailesh is :
 (A) Rs. 4800 (B) Rs. 6000
 (C) Rs. 5000 (D) Rs. 5800
5. If the selling price of 5 articles is same as the cost price of 6 articles then the gain percentage is :
 (A) 1% (B) 5%
 (C) 10% (D) 20%
6. The angle between the bisectors of two adjacent supplementary angles is :
 (A) acute angle (B) right angle
 (C) obtuse angle (D) none of these
7. A wire 88 cm long is bent into a form of a circle. Find the area enclosed by the wire. [Use $\pi = \frac{22}{7}$]
 (A) 14 sq. cm (B) 616 sq. cm
 (C) 196 sq. cm (D) 576 sq. cm
8. The value of x in $\frac{3}{x+1} = \frac{5}{7x+1}$ will be :
 (A) 1/2 (B) 1/3
 (C) 1/8 (D) 1/4
9. Degree of 2^3 is :
 (A) 3 (B) 2
 (C) 1 (D) 0
10. 28 litre mixture of milk and water contains milk and water in the ratio . of 5 : 2. If 2 litre of water be added to this mixture, then the ratio of water and milk is :
 (A) 7: 2 (B) 5: 4
 (C) 1: 2 (D) 2: 1
11. Magnetic force is :
 (A) attractive (B) repulsive
 (C) (A) and (B) both (D) none of these
12. The number of satellites of Venus is/are :
 (A) one (B) two
 (C) three (D) zero
13. Find the initial velocity of a car which is stopped in 10 s by applying brakes. Retardation due to brakes is 250 cm/s^2 .
 (A) 25 m/s (B) 250 cm/s
 (C) 2.5 m/s (D) 25 cm/s
14. When a substance changes its state from solid to liquid :
 (A) some amount of energy is absorbed
 (B) the temepature remains constant
 (C) both (A) and (B) are correct
 (D) none of these
15. In a metal :
 (A) all the electrons are free
 (B) there is no electron
 (C) all the electrons are bound to their parent atoms
 (D) some electrons are free

Space For Rough Work

16. An electric fuse is based on the :
 (A) Heating effect of current
 (B) Chemical effect of current
 (C) Magnetic effect of current
 (D) None of these
17. The rate of change of displacement with time is :
 (A) Speed (B) Acceleration
 (C) Retardation (D) Velocity
18. Substance that allows light to pass through it partially is called :
 (A) Translucent
 (B) Opaque substance
 (C) Transparent substance
 (D) None
19. Electric current is :
 (A) flow of charge per unit time
 (B) work done per unit time
 (C) resistance per unit time
 (D) all of the above
20. The range of a clinical thermometer is :
 (A) 0°C – 100°C (B) 32°F – 212°F
 (C) 0°C – 273°C (D) 35°C – 42°C
21. Flax is a kind of -
 (A) animal skin (B) synthetic fibre
 (C) plant (D) None of these
22. Match the following
 (i) Tamarind (a) Acetic acid
 (ii) Vinegar (b) Lactic acid
 (iii) Lemon (c) Tartaric acid
 (iv) Sour milk (d) Citric acid
 (A) (i)-(c), (ii)-(a), (iii)-(d), (iv)-(b)
 (B) (i)-(b), (ii)-(a), (iii)-(d), (iv)-(c)
 (C) (i)-(d), (ii)-(a), (iii)-(b), (iv)-(c)
 (D) (i)-(b), (ii)-(c), (iii)-(d), (iv)-(a)
23. Which of the following substances is used in preparation of silver mirror ?
 (A) AgBr (B) AgNO_3
 (C) $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ (D) AgCl
24. Why rusting of iron is faster in coastal areas than in deserts ?
 (A) Because air has more moisture in coastal areas than in desert areas.
 (B) Because air has less moisture in coastal areas than in desert areas.
 (C) None of these
 (D) Both (A) and (B)
25. The process of obtaining pure crystals of copper sulphate from copper sulphate solution is known as -
 (A) crystallisation (B) galvanisation
 (C) rusting (D) None of these
26. Water is used as coolant in engines because -
 (A) it makes us feel cold
 (B) it freezes easily
 (C) it has a high specific heat
 (D) None of these
27. When magnesium oxide (MgO) react with water to form magnesium hydroxide $[\text{Mg}(\text{OH})_2]$, a base, it turns _____ litmus to _____.
 (A) blue, red (B) blue, colourless
 (C) red, blue (D) colourless, blue
28. During rusting, the layer deposited on the surface of iron is -
 (A) FeO (B) Fe_2O_3
 (C) $\text{Fe}_2\text{O}_3 \cdot x\text{H}_2\text{O}$ (D) None of these

Space For Rough Work

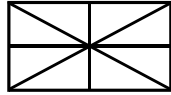
29. Ice floats on water because -
 (A) density of ice is higher than that of water.
 (B) density of ice is lower than that of water.
 (C) temperature of ice is lower than that of water.
 (D) temperature of water is higher than that of ice.
30. The boiling point of water on plains is 100°C. At hills it will be -
 (A) 100°C (B) More than 100°C
 (C) Less than 100°C (D) None of these
31. Few organisms cannot synthesise food on their own are called :
 (A) Autotrophs (B) Heterotrophs
 (C) BGA (D) Plants
32. Which of the following adaptations enable a penguin to swim ?
 (A) Flippers
 (B) Scales on body surface
 (C) Streamlined body shape
 (D) All of these
33. Wool yielding animals bear thick coat of hair because :
 (A) The animals carry a lot of hair follicles on body only
 (B) It protects them from the predators
 (C) Hairs trap a lot of air, which is a poor conductor of heat
 (D) The animals can sleep happily on the rough surfaces
34. The top soil is dark and :
 (A) Drier than subsoil
 (B) Richer in Na and Mg
 (C) Wetter than subsoil
 (D) Contains more organic matter
35. Which statement about lichens is true ?
 (A) A network of algal filaments protects the fungus
 (B) Algal cells supply food to the fungal component
 (C) The algal component is parasitic on fungus
 (D) Lichens always need organic substratum
36. Leaves respire with the help of :
 (A) Lenticles (B) Stomata
 (C) Plasmodesmata (D) Cuticle
37. Blood leaving lungs is rich in :
 (A) Oxygen (B) Carbon dioxide
 (C) Haemoglobin (D) Number of RBC
38. Human heart is divided into :
 (A) 4 Chambers (B) 5 Chambers
 (C) 3 Chambers (D) 2 Chambers
39. Which is the correct sequence of the food chain in grassland ?
 (A) Grass → wolf → deer → buffalo
 (B) Grass → insects → bird → snake
 (C) Grass → snake → insects → deer
 (D) Grass → snake → insects → wolf
40. Proteins are the polymers of
 (A) Amino acids (B) Natural proteins
 (C) Enzymes (D) Nucleic acids
41. What was the density of population in India according to 2001 census ?
 (A) 373 (B) 316
 (C) 324 (D) 350
42. In the leeward side of western ghats (.....) forests are found :
 (A) Evergreen (B) Deciduous
 (C) Alpine (D) Tidal

Space For Rough Work

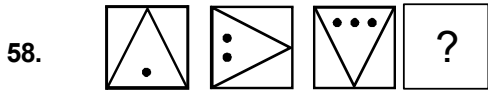
43. The Coromandel coast of Tamil Nadu receives rainfall due to :
 (A) north west trade winds
 (B) north east trade winds
 (C) Bay of Bengal Branch of Monsoon winds
 (D) all of the above
44. The dynasty that succeeded the Chalukyas in Western India was that of the -
 (A) Cholas (B) Kakatiyas
 (C) Pallavas (D) Rashtrakutas
45. Match the following :
 A Military Pay master 1. Taiyars
 B Charitable patronage 2. Bakshi
 C Military Commanders 3. Kotwal
 D Town Police Commander 4. Sadr
 (A) A-2, B-4, C-1, D-3
 (B) A-1, B-2, C-3, D-4
 (C) A-4, B-3, C-2, D-1
 (D) A-3, B-1, C-4, D-2
46. Guru Nanak established his centre at Kartarpur (Dera Baba Nanak) on the river :
 (A) Indus (B) Sutlej
 (C) Ravi (D) Chenab
47. Which among the following is not a river in the Veld grassland of South Africa :
 (A) Nile (B) Zambezi
 (C) Limpopo (D) Sabi
48. Anganwadis were set up by the :
 (A) Doctors (B) Police
 (C) Government (D) Households
49. Who called the multipurpose river valley projects the temples of 'modern India'
 (A) Dr. Rajendra Prasad
 (B*) Jawahar Lal Nehru
 (C) Smt. Indira Gandhi
 (D) Mahatama Gandhi
50. Governor is appointed by the :
 (A) Prime Minister
 (B) President
 (C) Chief Justice of India
 (D) Chief Justice of the concerned state high court
- Directions : (51 to 53) Find the missing term(s) —**
51. 3, 6, 10, 15, 21, _
 (A) 28 (B) 27
 (C) 26 (D) 25
52. Z, X, U, Q, L, ?
 (A) F (B) K
 (C) G (D) E
- 53.
- | | | | |
|-----|-----|-----|---|
| 4 | 7 | 3 | 2 |
| 416 | 749 | 309 | ? |
- (A) 304 (B) 104
 (C) 204 (D) 404
54. In a row, Surendra is twelfth from the left & Sanjay is Eighteenth from the right. They interchange their positions. Now Sanjay is twenty sixth from right. How many person are there in the row ?
 (A) 29 (B) 43
 (C) 37 (D) 38
55. If **table** is called **window**, **window** is called **chair**, **chair** is called **door** & **door** is called **sofa**, then which one of following do we sit on ?
 (A) chair (B) window
 (C) door (D) sofae
56. Which of the following is not a leap year ?
 (A) 1900 (B) 896
 (C) 1224 (D) 2000

Space For Rough Work

57. How many triangles are there in the given figure ?
 (A) 12
 (B) 14
 (C) 16
 (D) 18



Direction : (58) The figures in the question follow a series. Select the figure from the given alternatives which would continue the series.

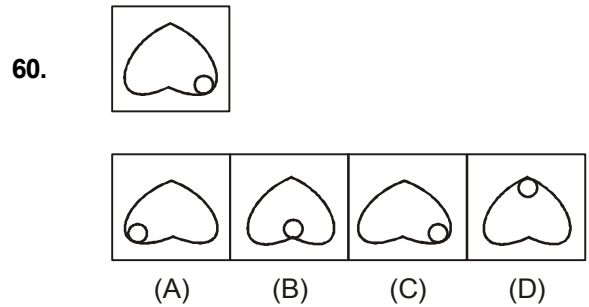


- (A) (B)
 (C) (D)

Direction : (59) In the following question, choose the pair/group of words that show the same relationship as given at the top of every pair/group.

59. Manager : Cabin
 (A) Driver : Train (B) Captain : Desk
 (C) Pilot : Cockpit (D) Servant : Hospital

Direction : (60) In the following five questions one figure is given below. You have to find out the mirror image of this figure. Four alternatives are given on the right side. Find your answer and show it on your answer sheet.



Space For Rough Work

SAMPLE PAPER–2

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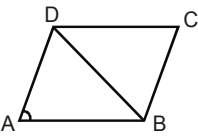
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1. If area of a circle A_1 is 25 times the area of a circle A_2 , then ratio of their circumference is :
 (A) 1 : 5 (B) 5 : 1
 (C) 25 : 1 (D) 1 : 25
2. The area of a trapezium is 180 cm^2 and its height is 12 cm. If one of the parallel sides is double that of the other, then the length of two parallel sides in cm are :
 (A) 20, 40 (B) 15, 30
 (C) 10, 20 (D) 10, 10
3. Median of the values 37, 31, 42, 43, 46, 25, 39, 45, 32 is :
 (A) 29 (B) 39
 (C) 37 (D) None of these
4. If $A : B = 3 : 4$, $B : C = 2 : 3$ then $A : C =$
 (A) 1 : 2 (B) 5 : 3
 (C) 1 : 3 (D) 2 : 3
5. The sum of one half, one third and one fourth of a number exceed the number itself by 12. The number is :
 (A) 72 (B) 144
 (C) 180 (D) 244
6. Length of a rectangle is 2 m more than twice its breadth. If the perimeter of the rectangle is 58 m. Find its length and breadth.
 (A) Length = 20 m and breadth = 9 m
 (B) Length = 19 m, breadth = 10 m
 (C) Length = 17 m, breadth = 12 m
 (D) Length = 18 m, breadth = 11 m
7. The ratio of the area of a square to that of the square drawn on its diagonal is :
 (A) 1 : 1 (B) 1 : 2
 (C) 1 : 3 (D) 1 : 4
8. Diagonal DB of a rhombus ABCD is equal to one of its sides. The values of $\angle A$ is :

 (A) 30° (B) 60°
 (C) 120° (D) 90°
9. How many numbers are known up till now which is even as well as prime.
 (A) Two (B) Five
 (C) One (D) Zero
10. Find : $\left[6^{-1} + \left(\frac{3}{2}\right)^{-1}\right]^{-1} = ?$
 (A) $\frac{2}{3}$ (B) $\frac{5}{6}$
 (C) $\frac{6}{5}$ (D) None of these
11. Electric bell :
 (A) has filament
 (B) has an electromagnet
 (C) works on heating effect of current
 (D) can be used as a switch
12. When the switch is in the off state :
 (A) the circuit from the positive terminal of the battery to the negative terminal is complete
 (B) the circuit is said to be open circuit.
 (C) current flows throughout the circuit instantaneously
 (D) the circuit is close circuit
13. The value of 32°F in centigrade scale is :
 (A) 0°C (B) 10°C
 (C) 20°C (D) 30°C
14. Sweating causes cooling by :
 (A) conduction (B) radiation
 (C) convection (D) evaporation
15. Sunlight consists of :
 (A) black colour only
 (B) five colours
 (C) seven colours
 (D) blue colour
16. When an image is obtained by a plane mirror, left side of the object appears to be :
 (A) The left side of the image
 (B) The right side of the image
 (C) The top of the image
 (D) The bottom of the image

Space For Rough Work

17. An electric fuse is based on the :
 (A) Heating effect of current
 (B) Chemical effect of current
 (C) Magnetic effect of current
 (D) None of these
18. Human body temperature is normally :
 (A) 32°F (B) 0°F
 (C) 100.4°F (D) 98.6°F
19. Light shows :
 (A) Random propagation
 (B) Curvilinear propagation
 (C) Rectilinear propagation
 (D) None of these
20. In 10 minutes, a car with speed of 60 kmh⁻¹ travels a distance of :
 (A) 6 km (B) 600 km
 (C) 10 km (D) 7 km
21. The acidic soil is not good for healthy growth of plants. This type of soil is neutralized by adding
 (A) hydrochloric acid to the soil
 (B) calcium oxide (CaO) to the soil
 (C) sodium oxide to the soil
 (D) formic acid to the soil
22. Wool is a / an
 (A) fibre obtained from cocoon
 (B) artificial fibre
 (C) animal fibre
 (D) plant fibre
23. The science of raising silk worms to obtain silk is known as -
 (A) apiculture. (B) sericulture.
 (C) horticulture. (D) pisciculture.
24. Process of removing wool from a sheep is called
 (A) Weaving. (B) Shearing.
 (C) Spinning. (D) Ginning.
25. The acid present in our stomach which helps in digestion of food is :
 (A) acetic acid
 (B) formic acid
 (C) hydrochloric acid
 (D) tartaric acid
26. A substance that can destroy a cloth or wood is :
 (A) acid (B) water
 (C) (A) and (B) both (D) Salt
27. The process of obtaining jute fibres from its stem is known as
 (A) bales (B) ginning
 (C) bobbing (D) retting
28. The burning of carbon with oxygen is a
 (A) physical change.
 (B) chemical change.
 (C) geographical change
 (D) environmental change.
29. Now a days many of the automobiles are using CNG (Compressed Natural Gas) to minimize pollution. The CNG is mainly -
 (A) methane (B) butane
 (C) nitrogen (D) hydrogen
30. The water vapours deposit as water droplets on a cooler plate covering the vessel by the process of -
 (A) evaporation (B) melting
 (C) condensation (D) freezing
31. Villi are present in :
 (A) Stomach (B) Oesophagus
 (C) Large intestine (D) Small intestine
32. In mammals the body cavity is partitioned into thoracic and abdominal parts by
 (A) liver (B) lungs
 (C) ribs (D) diaphragm
33. Loss of water from the tips of leaves is called -
 (A) guttation (B) transpiration
 (C) respiration (D) bleeding
34. Fertilisation of an ovum with a sperm takes place in -
 (A) fallopian tube (B) uterus
 (C) cervix (D) vagina

Space For Rough Work

35. During light reaction of photosynthesis
 (A) production of ATP occurs
 (B) production of NADPH_2 occurs
 (C) photolysis of water occurs
 (D) all of the above.
36. In amoeba absorption of the digested nutrients occurs in
 (A) cytoplasm
 (B) plasma membrane
 (C) contractile vacuole
 (D) pseudopodia
37. Full form of E.C.G. is
 (A) electrochlorogram
 (B) electrocardiogram
 (C) electrocardiograph
 (D) electrochlorograph
38. Binary fission is the most common mode of reproduction in
 (A) Protozoa
 (B) Bacteria
 (C) Fungi
 (D) Both A and B are correct
39. An example of a parasitic plant is -
 (A) Cuscuta (B) Alga
 (C) Pitcher plant (D) Lichen
40. Photosynthesis is a -
 (A) artificial process.
 (B) natural process.
 (C) manmade process.
 (D) physical process.
41. Mid day Meal scheme was introduced in -
 (A) Rajasthan (B) Tamilnadu
 (C) Andhra Pradesh (D) Kerala
42. Mahar was a untouchable caste of :
 (A) Bengal (B) Kerala
 (C) Punjab (D) Maharashtra
43. Nadir Shah was the ruler of :
 (A) Egypt (B) Iran
 (C) China (D) Afghanistan
44. Red fort is situated at :
 (A) Jaipur (B) Delhi
 (C) Chittor (D) Bikaner
45. A place where documents & manuscripts are stored is known as :
 (A) Library (B) Bookstore
 (C) Archive (D) Record
46. The point on the earth's surface vertically above the seismic focus is called :
 (A) Richter point (B) Epicenter
 (C) Starting Zone (D) Tremor
47. Television images travel huge distance through :
 (A) Satellite (B) Cables
 (C) Both (A) and (B) (D) None of these
48. International women's day is celebrated on :
 (A) 8th March (B) 10th March
 (C) 9th March (D) 16th March
49. Who founded the state of Hyderabad :
 (A) Saadat Khan
 (B) Nizam-ul-Mulk Asaf Jahan
 (C) Farrukh Siyar
 (D) Murshid Quli Khan
50. Which temple was built by king Rajarajadeva:
 (A) Rajarajeshvara
 (B) Kandariya Mahadev
 (C) Khajuraho
 (D) All of the above
- Directions : (51 to 53) Find the missing numbers :**
51. 2, 5, 7, 12, 15, 17, 22, ?
 (A) 25 (B) 26
 (C) 27 (D) 28
52.
$$5 \begin{array}{c} 4 \\ \circlearrowleft \\ 0 \\ \circlearrowright \\ 7 \end{array} 6 \quad 7 \begin{array}{c} 8 \\ \circlearrowleft \\ 1 \\ \circlearrowright \\ 4 \end{array} 6 \quad 11 \begin{array}{c} 0 \\ \circlearrowleft \\ ? \\ \circlearrowright \\ 2 \end{array} 2$$

 (A) 12 (B) 10
 (C) 11 (D) 0

Space For Rough Work

7	9	11
2	3	2
53	90	?

53.

- (A) 120 (B) 100
(C) 125 (D) 64

54. A is B's daughter, B is C's mother, D is C's brother. How D is related to A ?

- (A) Father (B) Grandfather
(C) Brother (D) Son

55. A husband and wife had five married sons, three unmarried daughters. The married had four children each. How many members were there in the family ?

- (A) 30 (B) 32
(C) 35 (D) 34

56. How many times the same number comes three times one after the other ?

- 958539963685444639902081364293569666
(A) 1 (B) 3
(C) 2 (D) 0

57. Pointing to a photograph, a lady tells Amit, "I am the only daughter of this lady and her son is your maternal uncle." How is the speaker related to Amit's father ?

- (A) Sister-in-law (B) Wife
(C) Either (A) or (B) (D) Neither (A) nor (B)

58. A travelled Westward 5 km, turned left and travelled 3 km, turned right and travelled 9 km. He then travelled North 3 km. How far he is from the starting point ?

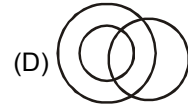
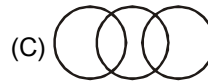
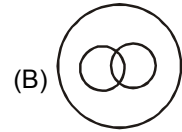
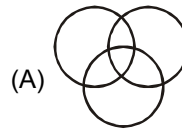
- (A) 5 km (B) 3 km
(C) 6 km (D) 14 km

Direction : (59) In the following questions choose the missing word in place of sign ? On the basis of the relationship between the words given on the left right side of sign :

59. Bird : Fly :: Snake : ?

- (A) Timid (B) Clatter
(C) Crawl (D) Hole

60. Which one of the following diagrams correctly represents the relationship among the classes: Tennis fans, Cricket players, Students ?



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VIBRANT ACADEMY (India) Private Limited

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1. Ekta drives a car with a speed of 48 km./hr. and covers a fixed distance in 10 hrs., if the same distance is to be covered in 8 hrs., How much speed should Ekta increase.
 (A) 60 km/ hr. (B) 36 km/ hr.
 (C) 24 km/ hr. (D) 12 km/ hr.
2. Nitin started a business with Rs. 10,000 and after 4 months Shailesh joins the business by investing Rs. 12,000. If the total profit is Rs. 10,800 then profit share of Shailesh is :
 (A) Rs. 4800 (B) Rs. 6000
 (C) Rs. 5000 (D) Rs. 5800
3. If $P = x + 1$ and $\frac{4P - 3}{2} - \frac{3x + 2}{5} = \frac{3}{2}$ then the value of x is :
 (A) 1 (B) 1/2
 (C) 2 (D) -1
4. If $x : y = 3 : 4$, then $(4x + 5y) : (4x - 5y)$ is :
 (A) 2 (B) -4
 (C) -3 (D) 3
5. The sum of seven consecutive natural numbers is 1617. How many of these numbers are not prime :
 (A) 4 (B) 2
 (C) 5 (D) 7
6. If 3.4 % of b is Rs. 68 then $b =$ _____.
 (A) Rs. 20 (B) Rs.200
 (C) Rs. 500 (D) Rs. 2000
7. Let x, y and z be distinct integers x and y are odd and positive, and z is even and positive. Which one of the following statements cannot be true ?
 (A) $(x - z)^2y$ is even (B) $(x - z)y^2$ is odd
 (C) $(x - z)y$ is odd (D) $(x - y)^2z$ is even
8. $\left\{ \left(\frac{1}{3} \right)^{-3} - \left(\frac{1}{2} \right)^{-3} \right\} \div \left(\frac{1}{4} \right)^{-3} = ?$
 (A) $\frac{19}{64}$ (B) $\frac{64}{19}$
 (C) $\frac{27}{16}$ (D) none of these
9. Simplify : $\frac{3}{8} - \frac{-2}{9} + \frac{-1}{36}$:
 (A) $\frac{1}{8}$ (B) $\frac{41}{72}$
 (C) $\frac{43}{72}$ (D) $\frac{11}{72}$
10. A square and an equilateral triangle have equal perimeters. If the diagonal of the square is $6\sqrt{2}$ cm, then area of the triangle is :
 (A) $16\sqrt{2}$ cm² (B) $16\sqrt{3}$ cm²
 (C) $12\sqrt{2}$ cm² (D) $12\sqrt{3}$ cm²
11. S.I. unit of temperature is :
 (A) °C (B) K
 (C) °F (D) °R
12. Choose the wrong statement :
 (A) Retardation is a vector quantity.
 (B) Acceleration due to gravity is a vector quantity.
 (C) Average speed is a vector quantity.
 (D) Displacement is a vector quantity.

(Space For Rough Work)

13. A person moves a certain distance in a certain time. if $\frac{1}{3}$ of the distance is covered in $\frac{1}{2}$ of the time with speed V_1 and the rest of the $\frac{2}{3}$ distance in $\frac{1}{2}$ of the time speed V_2 then V_1/V_2 is
 (A) $\frac{1}{2}$ (B) $\frac{1}{4}$
 (C) $\frac{4}{9}$ (D) $\frac{2}{9}$
14. GSLV means :
 (A) Geostationary satellite launch vehicle
 (B) German satellite launching vehicle
 (C) Global satellite locus verification system
 (D) None of the above
15. The direction of wind on the earth is
 (A) affected by the earth's rotation.
 (B) unaffected by the earth's rotation.
 (C) exactly from north to south and vice versa.
 (D) exactly from east to west and vice versa.
16. The greater the difference in air pressure, the
 (A) slower the water vapour moves.
 (B) slower the air moves.
 (C) faster the air moves.
 (D) greater is the tendency of air to be still.
17. The distance between two stations is 360 km. A train takes 6 hours to cover this distance. Calculate the speed of the train:
 (A) 60 km/h. (B) 1 km/minute .
 (C) $\frac{50}{3}$ m/s . (D) All of these
18. Some physical quantities and their units are given in column I and II respectively.
Column-I **Column-II**
 (a) speed (i) $\frac{m}{Sec.}$
 (b) force (ii) joule
 (c) energy (iii) Newton
 (d) Power (iv) watt
 (A) a(i), b(iii) ,c (ii) ,d (iv)
 (B) a(i), b(iv) ,c (iii) ,d (ii)
 (C) a(ii), b(iii) ,c (i) ,d (iv)
 (D) a(i), b(iii) ,c (iv) ,d (ii)
19. An object is kept at the distance of 6 cm from the plane mirror. So, the distance of the image from the object will be :
 (A) 6 cm (B) 8 cm
 (C) 16 cm (D) 12 cm
20. Image formed by a plane mirror is :
 (A) real in nature.
 (B) virtual in nature.
 (C) diminished compared to the object size.
 (D) enlarged compared to the object size.
21. Electrons revolve in some definite circular orbits around the nucleus without emission of energy. This statement was given by -
 (A) Rutherford (B) Bohr
 (C) Thomson (D) Somerfield
22. Which one of the following is a penta-atomic molecule ?
 (A) CO_2 (B) PCl_5
 (C) $POCl_3$ (D) C_2H_6
23. Acids are the substances that change -
 (A) blue litmus to red
 (B) methyl orange to white
 (C) phenolphthalein to pink
 (D) red litmus to blue
24. Baking Soda, $NaHCO_3$ is used as -
 (A) An antacid
 (B) a washing powder
 (C) an refrigerant
 (D) none of these
25. The process of rusting is slowest in the presence of :
 (A) distilled water
 (B) sea water
 (C) river water
 (D) rain water

(Space For Rough Work)

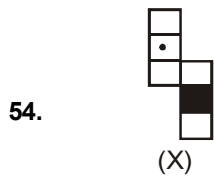
26. When an iron piece is dropped in a copper sulphate solution, the product is :
 (A) copper oxide (B) iron oxide
 (C) iron sulphate (D) copper hydroxide
27. During the formation of rain, when water vapour changes back to liquid in the form of rain drops-
 (A) heat is absorbed
 (B) heat is released
 (C) heat is first absorbed and then released
 (D) there is no exchange of heat.
28. _____ is called a universal solvent.
 (A) Water (B) Alcohol
 (C) Petrol (D) Ether
29. When an acid and a base react, the temperature of reaction mixture
 (A) increases (B) decreases
 (C) remains unchanged (D) none of these
30. $Zn + HCl \longrightarrow X + Y$
 (A) $X = ZnCl$, $Y = H_2$
 (B) $X = ZnCl_2$; $Y = H_2$
 (C) $X = ZnCl_3$, $Y = H_2$
 (D) None of these
31. Rainfall is measured by using an instrument called
 (A) measuring jar (B) rain gauge
 (C) hydrometer (D) hygrometer
32. The male gametes are found inside the
 (A) pollen-grains (B) ovary
 (C) pistil (D) style
33. In a plant cell, vacuoles contain :
 (A) water and dissolved substances
 (B) only air
 (C) only water
 (D) cytoplasm
34. Non membranous structure is :
 (A) Mitochondria (B) Nucleus
 (C) Lysosome (D) Nucleolus
35. One of the factor required for the maturation of erythrocytes is
 (A) Vit – D (B) Vit – A
 (C) Vit– B₁₂ (D) Vit – C
36. Photosynthesis will be highest when the plant is exposed to
 (A) Continuous strong light
 (B) Continuous weak light
 (C) Alternate strong and weak light
 (D) Intermediate light
37. Stomach secretes
 (A) concentrated hydrochloric acid
 (B) dilute sulphuric acid
 (C) dilute citric acid
 (D) dilute nitric acid
38. The mode of nutrition in green plants is :
 (A) Parasitic (B) Autotrophic
 (C) Heterotrophic (D) Saprophytic
39. The process of break down of complex components of food into simpler ones is called
 (A) digestion. (B) absorption.
 (C) photosynthesis. (D) fermentation.
40. Many tropical animals camouflage themselves with the surroundings by changing the
 (A) colour of their eyes.
 (B) shape of their ears.
 (C) colour of their skin.
 (D) shape of their body.

(Space For Rough Work)

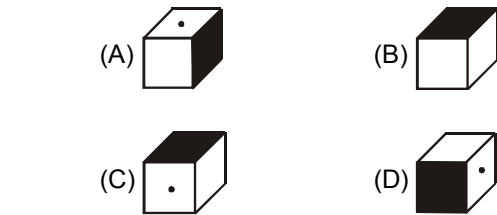
41. The first volume of the Guru Granth Sahib was compiled and installed in the Darbar Sabib in
(A) 1602 – 1603 AD (B) 1603 – 1604 AD
(C) 1604 – 1605 AD (D) 1605 – 1606 AD
42. The scale on which the seismic waves are recorded is called : –
(A) Linear scale
(B) Logarithmic scale
(C) Richter scale
(D) Reuter scale
43. When was the Civil Rights Act passed in the U.S.A.?
(A) 1964 (B) 1954
(C) 1976 (D) 1935
44. The foundation of Rashtrakutas dynasty was laid down by
(A) Amoghavarsha-I (B) Dantidurga
(C) Indra-III (D) Krishna-I
45. Match the following :
(i) Biosphere (1) Blanket of air surround earth
(ii) Atmosphere (2) Domain of water
(iii) Hydrosphere (3) Our surroundings
(iv) Environment (4) Narrow zone where land, water & air interact.
- Answer Code :
(A) i - 1, ii - 4, iii - 3, iv - 2
(B) i - 4, ii - 1, iii - 2, iv - 3
(C) i - 1, ii - 2, iii - 3, iv - 4
(D) i - 4, ii - 3, iii - 2, iv - 1
46. Tripartite struggle was between :
(A) Gurjara – Pratihara, Rashtrakuta & Pala dynasties
(B) Paramars, Chandellas & Pala
(C) Cholas, Cheras & Pandyas
(D) Rashtrakutas, Cholas & Cheras.
47. “Chinook” a local hot wind blows in-
(A) U.S.A. (B) Argentina
(C) India (D) Australia
48. The first autobiography of a woman titled “Amar Jiban” was written by
(A) Rashsundari Devi
(B) Sakuntla Devi
(C) Vijay Laxmi Pandit
(D) Sarojini Naidu
49. Between the seventh and twelfth centuries, regions of Delhi and Ajmer were ruled over by the
(A) Chalukyas (B) Chauhans
(C) Rashtrakutas (D) Pratiharas
50. Which of the following saints drew his followers from among both Hindus & Muslims
(A) Kabir (B) Guru Nanak
(C) Surdas (D) Ramdas
- Directions (51 to 53): Find the missing numbers/ letter/terms :**
51. 2.5, 3.5, 11, 42, 184, ?
(A) 920 (B) 945
(C) 960 (D) 985
52. A1A, B8D, C27G, D64J, ?
(A) E125M (B) J125O
(C) J120L (D) L120M

(Space For Rough Work)

53. cb _ ab _ cb _ a _ cc _ a
 (A) aacbb (B) acabb
 (C) abacb (D) ababc



Choose from the alternatives, the boxes that will be formed when figure (X) is folded ?

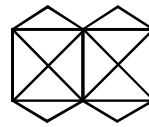


55. In a caravan, in addition to 50 hens, there are 45 goats and 8 camels with some keepers. If the total number of feet be 224 more than the number of heads in the caravan, the number of keepers is –
 (A) 5 (B) 8
 (C) 10 (D) 15

56. If in any code language, **KUMAR** is coded on **ODKVD**, How is **SAGAR** coded in that language
 (A) GWQVD (B) GXQVD
 (C) GXOVD (D) HXQVD

57. Pointing towards a person in a photograph, Mukesh said, “She is the only daughter of the mother of my brother’s sister.” How is that person related to Mukesh ?
 (A) Mother (B) Cousin
 (C) Sister (D) Aunt

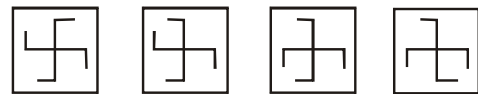
58. What is the number of triangles in this figure ?



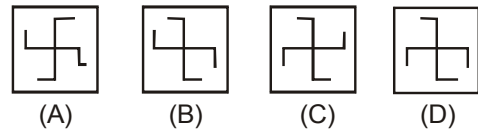
- (A) 12 (B) 20
 (C) 22 (D) 24

Direction : (59) In the following questions, some figures are given in a sequence. Find out the figure from the alternatives, which will come in place of the question mark to continue the sequence.

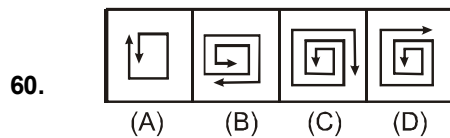
59. Problem Figures



Answer Figures



Direction : (60) In the following questions, there are figures of which three are similar in a certain way, and one is different. Find the one that is different from the rest.



(Space For Rough Work)

SAMPLE PAPER-1
CLASS-VIII(ANSWER KEY)

Ques	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	A	B	D	A	D	B	B	C	D	C	C	D	A	C	D
Ques	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	A	D	A	A	D	C	A	B	A	A	C	C	C	B	C
Ques	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	B	A	C	D	B	B	A	A	B	A	C	B	B	D	A
Ques	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Ans.	C	A	C	B	B	A	A	C	C	C	A	C	D	C	A

SAMPLE PAPER-2
CLASS-VIII(ANSWER KEY)

Ques.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	B	C	B	A	B	A	B	B	C	C	B	B	A	D	C
Ques.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	B	A	D	C	C	B	C	B	B	C	A	D	B	A	C
Ques.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	D	D	A	A	D	A	B	D	A	B	B	D	B	B	C
Ques.	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Ans.	B	A	A	B	A	A	C	C	C	C	C	B	D	C	A

SAMPLE PAPER-3
CLASS-VIII(ANSWER KEY)

Ques.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	D	A	A	B	C	D	A	A	B	B	B	C	A	A	A
Ques.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	C	D	A	D	B	B	C	A	A	A	C	B	A	A	B
Ques.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	B	A	A	D	C	D	A	B	A	C	C	C	A	B	B
Ques.	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Ans.	A	A	A	B	A	B	A	B	B	D	B	C	C	C	D