GENERAL INSTRUCTIONS FOR SAMPLE TEST PAPERS FOR RESO-SAT/RESO-FAST
STUDENTS MOVING TO CLASS-VII

Time : 1½ Hr.   **Max. Marks : 100**

1. In Mathematics, Physics, Chemistry, Biology each question carry 2(two) marks and in Social Science, Mental Ability & English each question carry 1 (one) mark.

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. There is 1/4 negative marking for each wrong answer.So attempt each question carefully.

7. 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.

8. In case of any dispute, the answer filled in the OMR sheet available with the institute shall be final.

MARKING CRITERIA

No. of Questions	Type	Marks		
		Correct	Wrong	Blank
1–60	Only one correct	Q. No. 1 to 40 : 2 Marks each	−0.50 Marks	0
		Q. No. 41 to 60 : 1 Marks each	−0.25 Marks	

━ IMPORTANT ━

PROCEDURE OF FILLING UP THE ANSWERS IN OMR SHEET

Wrong Filling

Ⓐ Ⓑ̸ Ⓒ Ⓓ   Tick mark

Ⓐ ⊠ Ⓒ Ⓓ   Cross mark

Ⓐ ◕ Ⓒ Ⓓ   Half filled or semi dark

◔ Ⓑ Ⓒ Ⓓ   Light filled

Right Filling

Ⓐ ● Ⓒ Ⓓ   Fully darken with HB Pencil

Ⓐ ● Ⓒ Ⓓ   Fully darken with HB Pencil

Ⓐ ● Ⓒ Ⓓ   Fully darken with HB Pencil

● Ⓑ Ⓒ Ⓓ   Fully darken with HB Pencil

1. Find the value of $\left(\dfrac{1}{2} - \dfrac{1}{3} + \dfrac{1}{4}\right)$.

(A) 5/24   (B) 10/12

(C) – 1/12   (D) 5/12

2. If Mrs. Sharma bought 18.5 litres of ghee for Rs. 3931.25, then cost of ghee per litre is :

(A) Rs. 212.50   (B) Rs. 222.50

(C) Rs. 237.50   (D) Rs. 243.50

3. Desending order of fraction $\dfrac{1}{5}, \dfrac{3}{7}, \dfrac{7}{10}, \dfrac{13}{28}$ is :

(A) $\dfrac{13}{28} > \dfrac{7}{10} > \dfrac{3}{7} > \dfrac{1}{5}$

(B) $\dfrac{13}{8} < \dfrac{7}{10} < \dfrac{3}{7} < \dfrac{1}{5}$

(C) $\dfrac{7}{10} > \dfrac{13}{28} > \dfrac{3}{7} > \dfrac{1}{5}$ (D) None of these

4. Successor of 999 is :

(A) 100   (B) 1000

(C) 998   (D) 000

5. Which one of the following is a prime number :

(A) 161   (B) 171

(C) 173   (D) 221

6. In a school, $\dfrac{4}{5}$ of the children are boys and the number of girls is 100. Find the number of boys in school.

(A) 80   (B) 125

(C) 400   (D) 500

7. If A = – 1, B = – 2, C = 3, find the value of (A + 1) (B + 1) (C + 1) + 7.

(A) 7   (B) 0

(C) 8   (D) 10

8. From one corner of a square of side 8 cm, a small square of side 1 cm is cut off. What is the perimeter of the remaining figure ?

(A) 28 cm   (B) 30 cm

(C) 32 cm   (D) 34 cm

9. Find the circumference of a circle of radius 14 cm.

(A) 70 cm   (B) 88 cm

(C) 75 cm   (D) 38 cm

10. How many natural numbers are there containing 2 digits ?

(A) 90   (B) 99

(C) 100   (D) 89

11. Light shows :

(A) Random propagation

(B) Curvilinear propagation

(C) Rectilinear propagation

(D) None of these

12. When the sun is behind you, your shadow is :

(A) behind you   (B) above you

(C) in front of you   (D) None of these

13. The minimum time to complete one revolution around the sun is taken by :

(A) Earth   (B) Mercury

(C) Pluto   (D) Jupiter

14. Sun is a :

(A) star   (B) planet

(C) galaxy   (D) comet

Space For Rough Work

15. Sunlight consists of :
(A) black colour only (B) five colours
(C) seven colours (D) blue colour

16. C.G.S. unit of acceleration is :
(A) ms^{-2} (B) $cm\ s^{-2}$
(C) ms^2 (D) $cm\ s^2$

17. 1 calorie equals to :
(A) 3.5 joule (B) 4.81 joule
(C) 4.18 joule (D) 3.9 joule

18. The atmospheric pressure on our body is :
(A) $10^2\ NM^{-2}$ (B) $10^3\ NM^{-2}$
(C) $10^5\ NM^{-2}$ (D) $10^4\ NM^{-2}$

19. The earth has _____natural Satellite.
(A) Five (B) Two
(C) One (D) Four

20. Concave lenses is _____.
(A) diverging (B) converging
(C) dispersing (D) reflecting

21. Wool is a / an
(A) fibre obtained from cocoon.
(B) artificial fibre.
(C) animal fibre.
(D) plant fibre.

22. Excessive rains cause
(A) droughts.
(B) shortage of water.
(C) depletion of water table.
(D) floods.

23. Two changes are given below -
i A piece of magnesium gives off bright flames when burnt
ii A piece of iron glows red when heated strongly
Which of them is a physical change ?
(A) i only (B) ii only
(C) i as well as ii (D) neither i nor ii

24. Which of the following will float on water surface ?
(A) Wood (B) Mat
(C) Stone (D) Glass

25. What is the pressure at sea level ?
(A) 760 mm of Hg (B) 76 cm of Hg
(C) (A) &(B) both (D) None of these

26. Which of the following is an example of chemical change ?
(i) Heating water
(ii) Dissolving common salt in water
(iii) Dissolving sodium in water
(iv) Heating of iron rod
(v) Burning of magnesium wire
(A) (i), (iv) and (v) (B) (i), (iii) and (v)
(C) (iii) and (v) (D) (ii), (iii) and (v)

27. A mixture of sand and sugar can be separated by :
(A) dissolving it in a suitable solvent followed by fractional distillation
(B) dissolving it in a suitable solvent followed by filtration and crystallization
(C) sedimentation
(D) threshing

28. Dirty water contains germs and can be harmful, so swimming pools are disinfected by bubbling through water a controlled amount of :
(A) air (B) oxygen
(C) bromine (D) chlorine

29. Which of the following have long chains of protein ?
(A) Jute (B) Cotton
(C) Silk and Wool (D) All of the above

30. Which of the following is similar to cotton ?
(A) Nylon (B) Dacron
(C) Jute (D) Terylene

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31. The uncommon among the given is :
(A) tiger
(B) lion
(C) jackal
(D) bear

32. The plant whose fruit is used as a spice is :
(A) turmeric.
(B) chilly.
(C) cinnamon.
(D) ginger.

33. Rat is
(A) carnivorous.
(B) herbivorous.
(C) omnivorous.
(D) insectivorous.

34. An animal that eats fruits of trees is :
(A) cat.
(B) monkey.
(C) eagle.
(D) snake.

35. The odd one out amongst the following is :
(A) Acacia.
(B) Cactus.
(C) Hydrilla.
(D) Ber.

36. Which gas in the atmosphere is essential for respiration ?
(A) Oxygen
(B) Nitrogen
(C) Carbon dioxide
(D) Helium

37. Sunshine vitamin is -
(A) Vitamin - A
(B) Vitamin - D
(C) Vitamin - K
(D) Vitamin - E

38. Global warming is caused when air has in excess -
(A) Oxygen
(B) Water
(C) Carbon - dioxide
(D) NO_2

39. _____ is a carnivorous animal.
(A) Cow
(B) Tiger
(C) Goat
(D) Rabbit

40. Which plant part is usually not present in air ?
(A) Stem
(B) Leaf
(C) Flower
(D) Root

41. The total number of spoken languages in India is
(A) 100.
(B) 900.
(C) 1400.
(D) 1600.

42. What does Indian constitution ensure to its citizen?
(A) Justice and Liberty
(B) Equality
(C) Fraternity
(D) All of them

43. Why India is called as a secular country?
(A) Freedom of religion
(B) Freedom of speak
(C) Freedom of prejudice
(D) Freedom of action

44. The state that enjoys the monarchical rule is
(A) South Africa.
(B) India.
(C) Saudi Arabia.
(D) Britain.

45. What do you mean by 'Apartheid'?
(A) Separation on the basis of race and colour
(B) Name of a South African dish
(C) Traditional dance of South Africa
(D) Policy for the suppression of whites in South Africa

46. Krishnasagar dam is in
(A) Karnataka.
(B) Tamil Nadu.
(C) Kerala.
(D) Andhra Pradesh.

47. When one sees violation of the law, one immediately tries to inform the
(A) Judge.
(B) Lawyer.
(C) Police.
(D) Advocate.

48. The name Silk Route was first associated with
(A) Japanese people.
(B) Chinese people.
(C) Iranian people.
(D) British people.

49. Under the Cholas vetti was taken in the form of
(A) Grain
(B) Forced Labour
(C) Money
(D) Cloth

50. Fa Xian ,Xuan Zang and I-Qing were
(A) Chinese Traders
(B) Chinese Priests
(C) Chinese Pilgrims
(D) Japanese piligrims

51. Find the missing term(s) —
2, 3, 5, 7, 11, ?, 17
(A) 14
(B) 13
(C) 10
(D) 12

Space For Rough Work

52. If 'A' means '+', 'B' means '–' , 'C' means 'x', then what will be the value of

(10C4) A (4C4) B6 = ?

(A) 60   (B) 56

(C) 50   (D) 46

53. **'Bird'** is related to **'Nest'** in the same way as **'Bees'** is related to _____ .

(A) Aquarium   (B) Hive

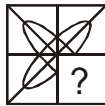(C) Aviary   (D) Tree

54. How many triangles are there in the following figure ?

(A) 6

(B) 7

(C) 8

(D) 9

Direction : (55) Select a figure from the four alternatives, which when placed in the blank space of figure (X) would complete the pattern.

55.

(X)   (A)   (B)   (C)   (D)

Direction(56 to 60) Tick the correct alternative-

56. If I were you, I ....that coat. It's too expensive.

(A) Won't buy   (B) don't buy

(C) Am not going to buy   (D) wouldn't buy

57. I decided to stay at home last night. I would have gone out if I....................so tired.

(A) Wasn't   (B) weren't

(C) Wouldn't have been   (D) Hadn't been

58. I wish I..a car. It would make life so much easier.

(A) have   (B) had

(C) would have   (D) None

59. We...............................by a loud noise during the night.

(A) Woke up   B is woken up

(C) Were woken up   (D) were waking up

60. The train................................arrive at 11.30 but it was an hour late.

(A) supposed to   (B) is supposed to

(C) Was supposed to   (D) None

ANSWER KEY

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

1. The least number that must be added to 1,330 to get a number exactly divisible by 43 is :
    (A) 46   (B) 1
    (C) 3   (D) 7

2. The smallest 5-digit number of different digits formed by using the digits :
    3, 1, 0, 5 and 7 is
    (A) 13507   (B) 10357
    (C) 13570   (D) 10537

3. On subtracting the sum of –7 and – 17 from the sum of –36 and 42, we get :
    (A) -18   (B) -30
    (C) 18   (D) 30

4. A piece of wire 7/8 m long broke into 2 pieces.One piece was 1/4 m long.
    Then the length of other piece is :
    (A) 3/8m   (B) 2/8m
    (C) 1/8m   (D) 5/8m

5. Which of the following is the smallest :
    $\dfrac{14}{25}, \dfrac{57}{100}, \dfrac{49}{86}, \dfrac{3}{5}$.

    (A) $\dfrac{14}{25}$ (B) $\dfrac{57}{100}$
    (C) $\dfrac{49}{86}$ (D) $\dfrac{3}{5}$

6. Simplify : 2x – [3y– {2x – (y – x)}]
    (A) 5x + 4y   (B) 5x – 4y
    (C) – 5x – 4y   (D) – 5x + 4y

7. The mean of 15, 20, 28, 32, 23, 43, 21, 28, 25 and a is 27. Find the value of "a".
    (A) 40   (B) 42
    (C) 43   (D) 35

8. 0.64 × 0.64 + 0.64 × 0.72 + 0.36 × 0.36 = ...
    (A) 0.5392   (B) 0.9682
    (C) 1   (D) 0.8962

9. What percentage of 240 is 90 ?
    (A) 37.5%   (B) 40 %
    (C) 35.5 %   (D) 39.5 %

10. When the perimeter and area of a square are numerically equal then the numerical value of its side is :
    (A) 1   (B) 2
    (C) 4   (D) 8

11. The angle of reflection is 50º, find the angle between reflected ray and reflecting surface :
    (A) 40º   (B) 50º
    (C) 90º   (D) 45º

12. The device in a vehicle used to measure the speed is
    (A) odometer   (B) Speedometer
    (C) Voltmeter   (D) Galvanometer

13. Distance between two cities is measured in :
    (A) metres   (B) millimetres
    (C) kilometres (D) centimetres

14. Wind is :
    (A) moving water   (B) non-moving water
    (C) moving air   (D) non-moving air

15. Light causes the sensation of :
    (A) Vision   (B) Light
    (C) Both (A) and (B)   (D) None

16. A polished or a shiny surface can act as a :
    (A) lens   (B) glass
    (C) mirror   (D) surface

Space For Rough Work

17. Air moves from the region where the air pressure is high to the region where :
(A) the pressure is low
(B) the pressure is higher
(C) there is storm
(D) no change in air pressure

18. Warm air is :
(A) heavier than cold air
(B) lighter than cold air
(C) has zero weight
(D) stronger than cold air

19. The word 'AMBULANCE' is written in the :
(A) reverse order on an ambulance.
(B) form of its mirror image on an ambulance van.
(C) correct order on an ambulance.
(D) random order on an ambulance.

20. A faster moving object covers:
(A) less distance in more time
(B) more distance in more time
(C) less distance in shorter time
(D) more distance in shorter time

21. Dissolving sugar in water is an example of :
(A) physical change   (B) chemical change
(C) redox reaction   (D) none of these

22. Photosynthesis by plant releases :
(A) CO   (B) CO_2
(C) N_2 (D) O_2

23. The change where energy is released is known as :
(A) endothermic change
(B) exothermic change
(C) slow change
(D) periodic change

24. Which of the following is a natural polymer ?
(A) Cellulose   (B) Nylon
(C) Polythene   (D) PVC

25. The smell of perfume spreads out by a process known as -
(A) evaporation   (B) diffusion
(C) condensation   (D) fusion

26. Hot air :
(A) is heavier than cold air
(B) weighs the same as cold air
(C) is lighter than cold air
(D) None of the above

27. Ice floats on the surface of water because
(A) density of water is greater than ice.
(B) density of ice is greater than water.
(C) density of water is equal to density of ice.
(D) both have low density

28. Ammonium Chloride can be purified by -
(A) distillation   (B) filtration
(C) sedimentation   (D) sublimation

29. Formation of coal is -
(A) fast change
(B) slow change
(C) periodic change
(D) none of these

30. The change from vapour to liquid state is called
(A) sublimation
(B) condensation
(C) evaporation
(D) vapourisation

31. Which of the following is not an insectivore ?
(A) Crocodile   (B) Frog
(C) Lizard   (D) None

Space For Rough Work

32. Which of the following gases is the major component of air ?

(A) Nitrogen   (B) Oxygen
(C) Carbon dioxide   (D) Hydrogen

33. The outer skeleton of a snail is called

(A) Skull   (B) Shell
(C) Bone   (D) Cartilage

34. The birds can fly because of _____ .
(A) Forelimbs modified into wings
(B) Hollow & Light Bones
(C) Both 'a' & 'b'
(D) None of these

35. Green colour of leaves is due to the presence of :

(A) Haemoglobin   (B) Chlorophyll
(C) Chloroform   (D) None of these

36. Orange juice contains plenty of :
(A) Vit A   (B) Vit B
(C) Vit C   (D) Vit D

37. The blood's red color is due to the colour of
(A) hemocyanin   (B) hemolymph
(C) haemoglobin   (D) WBC

38. An instrument used to listen the heartbeat is
(A) stethoscope   (B) barometer
(C) thermometer   (D) incubator

39. Match the items given in column A with those in column B.

Column–A	Column–B
(I) Milk	(A) herbivore
(II) Fruits	(B) animal product
(III) Tiger	(C) plant product
(IV) Deer	(D) carnivore

(A) I-D, II-A, III-B, IV-C
(B) I-A, II-B, III-C, IV-D
(C) I-B, II-C, III-D, IV-A
(D) I-C, II-D, III-A, IV-B

40. Nutrient content of chapatti mainly includes
(A) fat   (B) minerals
(C) carbohydrates   (D) proteins

41. The state government makes laws on subjects like ;
(A) agriculture, irrigation, trade and commerce.
(B) foreign affairs, banking and currency.
(C) agriculture, banking and irrigation.
(D) communication, currency and trade.

42. The Aryabhatiyam was written by :
(A) Aryabhata.   (B) Arabians.
(C) Aaravalli Gupta.   (D) Arikam Gupta.

43. Panchayati Raj system is in which level of a democratic government?
(A) Third Level   (B) Second Level
(C) Fourth Level   (D) First Level

44. Under the local goverment system the city is divided into several _____ .
(A) districts.   (B) states.
(C) wards.   (D) tehsils.

45. Where is Tehri dam located in India ?
(A) Uttar Pradesh
(B) Madhya Pradesh
(C) Orrissa
(D) Uttrakhand

46. The Indian Standard Time has been taken from.
(A) 82 degree 30' E longitude.
(B) 75 degree 30' E longitude.
(C) 89 degree 45' E longitude.
(D) 80 degree 30' E longitude.

47. The famous quote of Abraham Lincoln "'Government of the people, for the people and by the people" is said for
(A) Dictatorial rule.   (B) Military rule.
(C) Democracy.   (D) Monarch.

Space For Rough Work

48. The political party, which is unable to get a majority in Legislative Assembly is known as the
(A) Ruling Party
(B) Opposition
(C) Non Legislative Party
(D) Non Assembly Party

49. The law under which women enjoys equal share in property is
(A) Transfer of Property Act, 1882
(B) Vested Property Act, 1965.
(C) Forfeiture of Property Act, 1976.
(D) Hindu Succession Amendment Act, 2005.

50. The minimum age of voters in municipal election is –
(A) 18 years   (B) 21 years
(C) 25 years   (D) 30 years

Directions (51) : Find the odd term out.

51. (A) Plate   (B) Jug
(C) Pot   (D) Bucket

DirectionS (52) : Find the missing term in the given series.

52. 0, 2, 2, 4, 4, 5, 6, 7, 8, 8, 10, 10, ?
(A) 9   (B) 10
(C) 13   (D) 12

Direction (53) : Find the odd term out :

53. (A) Transport   (B) Bus
(C) Car   (D) Train

54. In the following question, find which one word can be made from the letters of the given word.
QUINTESSENCE
(A) SCOT   (B) QUOTE
(C) QUITE   (D) ESTEEM

55. W, V, T, S, Q, P, N, M, ?, ?
(A) I, J   (B) J, I
(C) J, K   (D) K, J

Direction (56 to 60) : Tick the correct alternative-

56. Synonym of **Archaic** is-
(A) Modern   (B) Prevailing
(C) Ancient   (D) Contemporary

57. Antonym of **Bless** is-
(A) Exalt   (B) Curse
(C) Sanctify   (D) None of these

58. He left _____ house without informing anyone.
(A) A   (B) An
(C) The   (D) None of these

59. There is _____ box of pencils lying on the table.
(A) A   (B) An
(C) The   (D) None of above

60. Raju _____ the apple with a blunt knife.
(A) cutting   (B) is cut
(C) cut   (D) Cutted

ANSWER KEY

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

1. What percentage of 240 is 90 ?
   (A) 37.5%   (B) 40 %
   (C) 35.5 %   (D) 39.5 %

2. A piece of wire 7/8 m long broke into 2 pieces. One piece was 1/4 m long. Then the length of other piece is :
   (A) 3/8m   (B) 2/8m
   (C) 1/8m   (D) 5/8m

3. 0.64 × 0.64 + 0.64 × 0.72 + 0.36 × 0.36 = ...
   (A) 0.5392   (B) 0.9682
   (C) 1   (D) 0.8962

4. The total cost of flooring a room at Rs 8.50 per square metre is Rs 510. If the length of the room is 8 metre, then its breadth is
   (A) 50/4 m   (B) 60/8 m
   (C) 70/5 m   (D) 25/4 m

5. By selling apples at the rate of Rs. $24\dfrac{1}{4}$ per kilogram, a fruit-seller gets Rs. 8536. How many kilogram of apples did he sell ?
   (A) 252   (B) 312
   (C) 352   (D) 432

6. If a = – 2, b = 3 and c = 4, then the value of $a^3 + b^3 + 3a^2c - 4bc^3$ is :
   (A) 107   (B) – 107
   (C) 701   (D) – 701

7. The perimeter of rectangle is 90m. It is 30 m long, then its area is
   (A)15 sq meter   (B) 45 sq meter
   (C)450 sq meter   D)150 sq meter

8. If x=5 and y=3, find the value of $3x - 2y^2$.
   (A) 3   (B) –3
   (C) 1   (D) –1

9. How many lines can be drawn through a single point
   (A) 1   (B) Infinite
   (C) Finite   (D) None of these

10. Simplify : 23 + 5 – [(– 15) ÷(– 3) + 5{6 –(– 7)}].
    (A) 64   (B) 88
    (C) 66   (D) – 42

11. If two objects at same temperature are in contact, the heat transfer
    (A) will take place from the left object to the right object.
    (B) will take place from the right object to the left object .
    (C) will take place first from the left object and then from the right object.
    (D) will not take place.

12. Sound can travel through :
    (A) liquid   (B) solid
    (C) gas   (D) all

13. Two woollen blankets are more warmer than a single one due to :
    (A) bad conductivity of air.
    (B) good conductivity of air.
    (C) convection of heat.
    (D) radiation of heat.

14. The principle employed in the use of ventilators inside houses is that of :
    (A) convection   (B) conduction.
    (C) radiation.   (D) insulation.

15. The device used to measure the distance is known as :
    (A) galvanometer   (B) sonometer
    (C) speedometer   (D) odometer

(Space For Rough Work)

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16. Which amongst them is not a unit of speed :
(A) m / s
(B) km × hour
(C) km / h
(D) m / min

17. The sun is at the centre of :
(A) Universe
(B) Solar system
(C) Akash Ganga galaxy
(D) None of these

18. Speedometer records the reading in :
(A) m/h.
(B) km/s.
(C) m/s.
(D) km/h.

19. Slabs of ice are generally covered with :
(A) iron sheet.
(B) copper sheet.
(C) gunny bags.
(D) glass sheet.

20. In summers, outer walls of houses are painted with light colours, so that the house :
(A) absorb heat from surrounding.
(B) remains at the same temperature as the surrounding.
(C) remains warmer than the surrounding.
(D) do not absorb any heat at all.

21. The process of change of state from solid to liquid is called -
(A) melting
(B) freezing
(C) boiling
(D) condensation

22. Which of the following is a good conductor of heat ?
(A) Plastic
(B) Wood
(C) Glass
(D) Copper

23. Fabric that keeps us cool during summers is
(A) Cotton
(B) nylon
(C) silk
(D) wool

24. Air is a/an -
(A) element
(C) compound
(C) mixture
(D) None of these

25. Acidic soil is not good for healthy growth of plants. This type of soil is neutralized by adding
(A) barium oxide (BaO) to the soil
(B) calcium oxide (CaO) to the soil.
(C) (A)& (B) both
(D) None of these

26. Litmus solution is obtained from
(A) acid
(B) base
(C) salt
(D) lichens.

27. The process by which green plants prepare their own food is known as
(A) nutrition
(B) respiration
(C) photosynthesis
(D) combustion

28. Match table 'A' (mixtures) with table 'B' (process for separation of constituents).

Table 'A'	Table 'B'
(a) Pebbles and stones with sand	(i) threshing
(b) Oil and water	(ii) sieving
(c) Wheat grains from stalks	(iii) decantation
(d) Salt in sea water	(iv) evaporation

(A) (a)-(i), b-(ii), c-(iii), d-(iv)
(B) (a)-(ii), b-(iii), c-(i), d-(iv)
(C) (a)-(iii), b-(iv), c-(i), d-(ii)
(D) (a)-(iv), b-(i), c-(ii), d-(iii)

29. A phenomenon due to which heat is trapped in the atmosphere is -
(A) green house effect
(B) fractional distillation
(C) nitrogen cycle
(D) decomposition

(Space For Rough Work)

30. The process of removal or shaving of wool from sheep's skin is known as
(A) shearing.
(B) carding.
(C) grading.
(D) spinning

31. Sprouts develop from the
(A) stems of whole moong
(B) fruits of whole moong
(C) seeds of whole moong
(D) flowers of whole moong

32. Pond is an example of -
(A) aquatic habitat
(B) terrestrial habitat
(C) desert habitat
(D) grassland

33. Hair, nails, skin and muscles are made of mainly
(A) fats
(B) carbohydrates
(C) proteins
(D) calcium

34. The food component, which prevents constipation is
(A) fats
(B) vitamins
(C) carbohydrates
(D) roughage

35. Conduction of water is the function of :
(A) Leaf
(B) Stem
(C) Root
(D) Flower

36. Anthers produce:
(A) Nectar
(B) Egg
(C) Pollen grains
(D) Buds

37. A malnourished child needs
(A) medicines
(B) only milk
(C) balanced diet
(D) rest

38. Which of the following food turns blue-black with iodine solution ?
(A) Milk
(B) Groundnut
(C) Raw potato
(D) Tomato

39. A house lizard eats
(A) oil cakes.
(B) pollen
(C) small insects.
(D) grains.

40. Vitamin D is obtained from
(A) carrot.
(B) liver.
(C) pumpkin.
(D) exposure to sun light.

41. Which layer comes after stratosphere
(A) Troposher
(B) Mesosphere
(C) Thermosphere
(D) Tonosphere

42. Coniferous forests are the features of which region ?
(A) Coartal region
(B) Delta Region
(C) Mountain Region
(D) Arid Region

43. What is the source of income of government ?
(A) Taxes
(B) Govt
(C) Departments
(D) Hospitals

44. Sapta Rishi is also known as
(A) Little Bear
(B) Big Bear
(C) Small Bear
(D) Great Bear

45. The latitude dividing India into two climatic zones is
(A) Equator
(B) Tropic of Cancer
(C) Arctic Circle
(D) Tropic of Capricorn

46. What is a Call Centre?
(A) A centralized office that deals with problems and questions that the customers have, regarding the services provided.
(B) Centre that supervises the work of people who travel to various parts of the city.
(C) Small workshop
(D) Centre for economically poor

(Space For Rough Work)

47. The country that was under Apartheid rule was-
(A) South Africa (B) Saudi Arabia
(C) South Korea (D) Mexico

48. All dates before the birth of Christ are counted backwards and are usually referred as
(A) BC (B) AD
(C) CE (D) Middle age

49. The type of map you will carry when you are going for trekking to the Himalayas is
(A) atlas (B) thematic maps
(C) political maps (D) physical maps

50. The magnetic needle of compass gives direction of
(A) east (B) north
(C) north-west (D) south

Directions (51: Find the missing numbers :
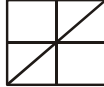
51.

(A) 15 (B) 22
(C) 30 (D) 35
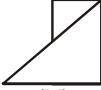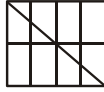
Direction : (52) Find the Mirror Image of given diagram-

52.

53. 'Match' is related to 'Win' in the same way as 'Examination' is related to
(A) Write (B) Appear
(C) Success (D) Attempt

54. If 'x' means '÷' , '–' means 'x', '÷' means ' +' and '+' means '–' then what will be the value of **(2 – 15 ÷ 18) × 8 + 6** = ?
(A) 8 (B) 4
(C) 2 (D) 0

***Direction : (55)** In the following questions, choose the alternative figure in which the question figure (X) is embedded.*

55.

Direction (56 to 60) : Tick the correct alternative-

56. Last night she
(A) make a good dinner.
(B) made a good dinner.
(C) makes a good dinner.
(D) has made a good dinner.

57. Either he or his brothers
(A) is going to make a decision.
(B) are going to make a decision.
(C) was going to make a decision.
(D) have going to make a decision.

58. The verb 'meddle' means
(A) trophy. (B) allow.
(C) grand. (D) to interfere.

59. I wish, he
(A) would reach here soon.
(B) dare reach here soon.
(C) need reach here soon.
(D) will to reach here soon.

60. I have
(A) many work to do.
(B) much work to do.
(C) the few work to do.
(D) many a work to do.

ANSWER KEY

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

1. The longer side of a parallelogram is 40 m. If the height from the longer side is 25m, then what would be its area ?
   (A) 800 m^2 (B) 10 m^2
   (C) 100 m^2 (D) 1000 m^2

2. How much does $- 4x^2 - 3xy + 5y^2$ is less than $3x^2 - 9y^2 + 14xy$?
   (A) $- 7x^2 - 17xy + 14y^2$ (B) $- x^2 + 11xy - 4y^2$
   (C) $7x^2 + 17xy - 14y^2$ (D) None of these

3. Expanded form of 37034 is -
   (A) 3000 + 700 + 0 + 30 + 4
   (B) 30000 + 700 + 0 + 10 + 4
   (C) 30000 + 10000 + 0 + 70 + 4
   (D) 30000 + 7000 + 0 + 30 + 4

4. The L.C.M. and H.C.F. of two numbers are 360 and 24 respectively. If one of the number is 72 , the other number is -
   (A) 120   (B) 96
   (C) 144   (D) 24

5. Which of these could be solved by using the open sentence S – 7 = ?
   (A) Rita collected 7 more seashells than Henry. If S is the number of seashells that Henry collected, how many did Rita collect ?
   (B) Bony collected 7 fewer seashells than Kamal. If S is the number of seashells Kamal collected, how many did Bony collect ?
   (C) David needs 7 seashells more to complete his collection. If S is the number of seashells he has, so far, how many will he have after he get 7 more ?
   (D) Amit filled 7 boxes with seashells, If S is the number of seashells she put in each box, how many seashells did she use in all ?

6. There are about 20 times as many species of ants as there are species of bats. Let b represents the number of species of bats. Which expression represents the number of species of ants ?
   (A) b + 20   (B) b ÷ 20
   (C) 20 × b   (D) 20 ÷ b

7. Find the LCM of 14,28 and 98.
   (A) 196   (B) 98
   (C) 42   (D) 28

8. Steve wants to find a trick for the division of a number by 9. Which one of the following is a correct trick for the same ?
   (A) Divide the number by 9
   (B) The difference of the digit should be 6
   (C) Sum of the digits of the given number should be divisible by 9
   (D) All of these

9. In a right angle triangle if the two angles are equal then find the value of one of the equal angles.
   (A) 50°   (B) 45°
   (C) 60°   (D) 90°

10. Observe the following pattern :
    $$1,5 \times 1,5 = 2,25$$
    $$2,5 \times 2,5 = 6,25$$
    $$3,5 \times 3,5 = 12,25$$
    Find _____ x _____ = 9900,25
    (A) 33,5   (B) 66,5
    (C) 99,5   (D) 100,5

11. Light travels in -
    (A) straight line   (B) Curved line
    (C) Circle   (D) None of these

Space For Rough Work

12. Sending of light back in same medium by object is -
(A) Reflection (B) Refraction
(C) Both of these (D) None of these

13. Velocity of sound in fresh water is :
(A) more than that in sea water
(B) less than that in air
(C) less than that in sea water
(D) more than that in alcohol

14. The word 'AMBULANCE' is written in the
(A) reverse order on an ambulance.
(B) form of its mirror image on an ambulance van.
(C) correct order on an ambulance.
(D) random order on an ambulance.

15. A quantity has value of –6.0 ms^{-1}. It may be the:
(A) Speed of a particle
(B) Velocity of a particle
(C) Position of a particle
(D) Displacement of a particle

16. In winters, the direction of winds is
(A) reversed to that in summers.
(B) same as in summer.
(C) both from ocean to land and land to oceans.
(D) funnel shaped.

17. Motion of pendulum of clock is -
(A) periodic (B) non - periodic
(C) linear (D) vibratory

18. Which of the following forces acts between your foot and the road when you run on the road?
(A) gravitational force (B) frictional force'
(C) buoyant force (D) balance force

19. The tail of the magnetic needle represents :
(A) South Pole (B) North Pole
(C) Both (A) and (B) (D) All the above

20. A faster moving object covers :
(A) Less distance in more time
(B) More distance in more time
(C) Less distance in shorter time
(D) More distance in shorter time

21. ____ sinks in the water, while _____ floats on water.
(A) Oil, mercury (B) Oil, petroleum
(C) Mercury, oil (D) Mercury, alcohol

22. Wood is different from iron in -
(A) transparency & lustre
(B) hardness & solubility
(C) smoothness & solubility
(D) hardness and lustre

23. Aquatic organisms are able to survive in water because -
(A) their body is adapted to water
(B) water helps in locomotion
(C) water contains dissolved gases
(D) all of the above

24. The smell of perfume spreads out by a process known as -
(A) evaporation (B) diffusion
(C) condensation (D) fusion

25. Hot air :
(A) is heavier than cold air
(B) weighs the same as cold air
(C) is lighter than cold air
(D) None of the above

Space For Rough Work

26. The mixture of sand, salt and water can be separated by :
(A) sublimation (B) filtration
(C) evaporation (D) both (B) & (C)

27. Acids and bases tastes respectively as -
(A) sweet, sour (B) sweet, bitter
(C) sour, bitter (D) bitter, sour

28. Excessive rains cause -
(A) droughts
(B) shortage of water
(C) depletion of water table
(D) floods

29. Bending of a glass tube by heating is a -
(A) chemical change
(B) physical change
(C) both (A) and (B)
(D) None of these

30. Radius of an atom is about -
(A) 10^{-7} cm (B) 10^{-8} metre
(C) 10^{-8} mm (D) 10^{-15} cm.

31. Who discovered the circulation of blood ?
(A) Edwardd jenner (B) William Harvery
(C) Hargobind khorana (D) Louis Pasteur

32. Green colour of leaves is due to the presence of :
(A) Haemoglobin (B) Chlorophyll
(C) Chloroform (D) None of these

33. If you dissolved a lot of salt in some water in a large flat dish and put the dish in bright sunlight on a hot day, what would be left in the dish after a long time?
(A) Dry salt
(B) Wather with no salt
(C) The same salty water as before
(D) Nothing

34. Which plant part is usually not present in air ?
(A) Stem (B) Leaf
(C) Flower (D) Root

35. An edible root is
(A) ginger (B) potato
(C) carrot (D) onion

36. Which of the following food turns blue-black with iodine solution ?
(A) Milk (B) Groundnut
(C) Tomato (D) Potato

37. Animals which eat both plants & animals are known as :
(A) Carnivores (B) Omnivores
(C) Herbivores (D) None of the above

38. Night blindness is caused due to the deficiency of which vitamin in our body ?
(A) Vitamin D (B) Vitamin C
(C) Vitamin A (D) Vitamin B1

39. The gas used by plants for photosynthesis is
(A) oxygen
(B) carbondioxide
(C) nitrogen
(D) carbon monooxide

40. Match the items given in column A with those in column B.

Column–A	Column–B
(I) Milk	(A) herbivore
(II) Fruits	(B) animal product
(III) Tiger	(C) plant product
(IV) Deer	(D) carnivore

(A) I-D, II-A, III-B, IV-C
(B) I-A, II-B, III-C, IV-D
(C) I-B, II-C, III-D, IV-A
(D) I-C, II-D, III-A, IV-B

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41. What is the 'Panchyati Raj system'?
(A) A process of electing council of ministers
(B) A process through which people participate in their local government.
(C) A system that ensures education
(D) Training programme for administrators

42. The Ashok Mehta Committee was appointed in
(A) 1974   (B) 1975
(C) 1977   (D) 1981

43. Kalibangan and Lothal are associated with
(A) Chinese Civilisation
(B) Harappan Civilisation
(C) Egyptian Civilisation
(D) Mesopotamian Civilisation

44. Read the following statements.
(a) Mohenjodaro arid Harappa were two largest cities of the Indus Valley civilization.
(b) The Indus Valley civilization was not the most ancient civilization in India.
Which of the following is correct?
(A) a is false but b is true
(B) a is true but b is false
(C) Both a and b are true
(D) Both a and b are false

45. Hiuen Tsang had come to India during the reign of :
(A) Asoka   (B) Chandragupta-II
(C) Samudragupta   (D) Harsa

46. About which of the following dyanasties shall we have better knowledge if, we read Patanjali's Bhasya. Megasthenes' Indica and Kautilya's (Chanakya's) Arthshastra along with some famous stone edicts?
(A) Kushanas   (B) Mauryans
(C) Guptas   (D) Rajputs

47. The important places which related to the Gautam Buddha's life is –
(A) Banaras, Patna, Allahabad
(B) Gorakhpur, Patliputra, Magadh
(C) Sarnath, Gaya, Lumbini
(D) Ajanta, Prayag, Nasik

48. The forest of Chhattisgarh, Madhya Pradesh, Bihar, Jharkhand etc. generally have neem, sal, teak, and shisham as the main trees. These forests are
(A) Rainforests.
(B) Tidal forests.
(C) Coniferous forests.
(D) Deciduous forests.

49. Saline water supports
(A) Mangrove forests.
(B) Rain forests.
(C) Thorny bushes.
(D) Coniferous forests.

50. Standard meridian in India is at
(A) 82° 30'E.   (B) 84° 30'E.
(C) 86° 30'E.   (D) 97° 30'E.

Directions (51) Find the missing term(s) –

51. 4, 8, 16, 32 , ?
(A) 60   (B) 61
(C) 64   (D) 65

Direction (52) : Find the odd term out :

52. (A) Transport   (B) Bus
(C) Car   (D) Train

Space For Rough Work

53. In the following question, find which one word can be made from the letters of the given word.

QUINTESSENCE

(A) SCOT   (B) QUOTE

(C) QUITE   (D) ESTEEM

54. W, V, T, S, Q, P, N, M, ?, ?

(A) I, J   (B) J, I

(C) J, K   (D) K, J

55. How many A are in the given letter series which does not has B just before it but has C just after it ?

D A C B A C D A C B C A C B A C B A D C

(A) 3   (B) 4

(C) 5   (D) 6

Direction(56-60): Tick the correct alternative:

56. They have done the work

(A) themselves.   (B) ourself.

(C) himself.   (D) myself.

57. The boys hid

(A) themselves.   (B) himself.

(C) them.   (D) their.

58. The old woman could not bear

(A) those noise.   (B) these noise.

(C) that noise.   (D) there noise.

59. Anyone

(A) need make mistakes.

(B) ought make mistakes.

(C) have to make mistakes.

(D) can make mistakes.

60. Monica is so tired. She

(A) will worked days and nights.

(B) need worked days and nights.

(C) must have worked days and nights.

(D) dare worked days and nights.

ANSWER KEY

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