

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

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

- (A) (B) (C) (D) Tick mark
 (A) (B) (C) (D) Cross mark
 (A) (B) (C) (D) Half filled or semi dark
 (A) (B) (C) (D) Light filled

Right Filling

- (A) (B) (C) (D) Fully darken with HB Pencil
 (A) (B) (C) (D) Fully darken with HB Pencil
 (A) (B) (C) (D) Fully darken with HB Pencil
 (A) (B) (C) (D) Fully darken with HB Pencil

PCCP Head Office:

Address : J-2, Jawahar Nagar, Main Road, Kota (Rajasthan)-324005

Contact. No. : +91-0744-2434727, 8824078330

Website : www.pccp.resonance.ac.in E-mail : pccp@resonance.ac.in


SAMPLE TEST PAPER



1. Write $2 \times p \times p \times p \times q \times q$ in exponential form
(A) $2pq$ (B) $2p^3q^2$
(C) $2p^2q^2$ (D) $2p^3q^3$
2. Subtract $4x^3 - 2x^2 + 5x$ from 0
(A) 0 (B) $4x^3 - 2x^2 + 5x$
(C) $-4x^3 + 2x^2 + 5x$ (D) $-4x^3 + 2x^2 - 5x$
3. 3 times $\frac{25}{81} =$ _____
(A) $\frac{75}{91}$ (B) $\frac{25}{27}$
(C) $\frac{75}{90}$ (D) $\frac{75}{71}$
4. If three angles of a triangle are x° , $2x^\circ$, $3x^\circ$ then value of x is
(A) 30° (B) 40°
(C) 50° (D) 60°
5. The sum of two integers is 45. If one of them is -23 , the other is :
(A) 68 (B) 22
(C) -68 (D) -22
6. The value of $300 \times 4 \times 0 \times 10$ is
(A) 1200 (B) 12000
(C) 120000 (D) 0
7. Find the ratio of 5 days to 60 hours.
(A) 1 : 2 (B) 12 : 1
(C) 1 : 12 (D) 2 : 1
8. Product of two co-prime numbers is 117. Their LCM should be
(A) 1
(B) 117
(C) equal to their HCF
(D) cannot be determined
9. By multiplying (-6) by (-8) we get
(A) 48 (B) -48
(C) -14 (D) -2
10. Difference of 100 and 99.999 is
(A) 1.111 (B) 1.000
(C) 0.001 (D) 0.01
11. When an object moves as a whole, that is, if all its parts moves the same distance in a given time, its motion is said to be :
(A) translational motion (B) periodic motion
(C) non-periodic motion (D) rotational motion
12. An electric iron :
(A) works on the principle of magnetic effect of electric current.
(B) can act as an electromagnet.
(C) works on the principle of heating effect of electric current.
(D) is a source of light.


(Space For Rough Work)

13. Which type of stimuli is not detected by our skin?
 (A) Heat (B) Light
 (C) Pain (D) Touch
14. Which of the following is an insulator ?
 (A) Wood (B) Plastic
 (C) Glass (D) All
15. A scientist who describes that orbits of planets are elliptical
 (A) Newton (B) Tycho Brahe
 (C) Johannes Kepler (D) Newton
16. Pole star usually refers to :
 (A) Great bear (B) Orion
 (C) Polaris (D) Ursa minor
17. A kaleidoscope is :
 (A) an optical toy.
 (B) a magnetic toy.
 (C) an electrical toy.
 (D) an electromagnetic toy.
18. When light falls on a polished or shiny surface
 (A) The light is absorbed by it.
 (B) There is no change in its direction .
 (C) The light gets deflected in different directions.
 (D) None of these
19. Unit of length is /are:
 (A) Meter (B) Light year
 (C) Parsec (D) All of these
20. Periodic motion is the motion :
 (A) which repeats itself after a regular interval of time.
 (B) which repeats itself after an indefinite time.
 (C) which does not repeat itself.
 (D) along a circular path.
21. Clay is used for making pots and bricks because it is :
 (A) opaque
 (B) non-magnetic
 (C) a good conductor of heat
 (D) easily moulded into different shapes
22. The heterogeneous mixture of soot particles in air is a mixture of :
 (A) solid in solid (B) solid in gas
 (C) gas in solid (D) gas in gas
23. When nitrogen reacts with hydrogen under high temperature and pressure, ammonia, gas is formed. This is an example of :
 (A) chemical combination
 (B) chemical decomposition
 (C) physical change
 (D) none of these
24. The most essential thing for life is
 (A) electricity (B) cloth
 (C) heat (D) water
25. Which of the following statements is true regarding earth's atmosphere ?
 (A) It gets denser with increase in altitude
 (B) It gets thinner with increase in altitude
 (C) Its thickness is at least one fourth the radius of the earth
 (D) It contains no solid particles

(Space For Rough Work)

26. The change from vapour to liquid state is called
 (A) sublimation (B) condensation
 (C) evaporation (D) vapourisation
27. Metals can be beaten into thin sheets. This property is called -
 (A) ductility (B) elasticity
 (C) volatility (D) malleability
28. Which of these can be found in all 3 states of matter
 (A) Vaseline (B) Wax
 (C) Water (D) Kerosene
29. Which of the following has a definite shape :
 (A) Solid (B) Liquid
 (C) Gas (D) None of these
30. The stage in life cycle of an insect excludes
 (A) pupa (B) caterpillar
 (C) gamete (D) None of these
31. A baby is exposed to sunlight in the morning. This is done to produce ___ in the body.
 (A) Vitamin A (B) Vitamin B
 (C) Vitamin D (D) Vitamin K
32. An example of dicotyledonous plant from the following is :
 (A) maize (B) rice
 (C) bean (D) barley
33. Which of the following statements is correct ?
 (A) the finger bones do not have joints
 (B) the skeleton is formed by only bones
 (C) cartilage is softer than bones and can be bent
 (D) all animals show similar movements
34. The device used to see the magnified image of cells is called :
 (A) microscope (B) telescope
 (C) periscope (D) spectrogram
35. Which of the following is an edible stem ?
- (A)  Ginger

(B)  Potato
- (C)  Carrot

(D)  Apple
36. What is the circulatory system ?
 (A) The body's breathing system
 (B) The body's system of nerves
 (C) The body's food processing system.
 (D) The body's blood transporting system.
37. Axial skeleton is made up of
 (A) skull only
 (B) sternum and ribs
 (C) skull and vertebral column
 (D) all of these
38. Energy content of food is expressed in
 (A) grams. (B) calories.
 (C) litre. (D) metres.
39. All of the given are milk product except
 (A) cream (B) cheese
 (C) chapati (D) ghee
40. The useful part of tea plant is its
 (A) seeds. (B) stem.
 (C) roots. (D) leaves.

(Space For Rough Work)

41. Match the following from the code given below:

Column A

A. Stupa

B. Pradakshina

C. Mandappa

D. Shikhara

Column B

(i) Tower

(ii) Path laid around stupa

Patha

(iii) Hall where people could

assemble

(iv) Mound

(A) A(i),B(ii),C(iv),D(iii)

(B) A(iv),B(ii),C(iii),D(i)

(C) A(i),B(ii),C(iii),D(iv)

(D) A(iv),B(i),C(iii),D(ii)

42. Mahabharata was composed by

(A) Ved Vyasa

(B) Ilango

(C) Valmiki

(D) Aryabhata

43. Ajanta is located in

(A) Gujarat

(B) Maharashtra

(C) Karnataka

(D) Rajasthan

44. The scholars in India invented a most important number of mathematics i.e.

(A) 0

(B) 1

(C) 2

(D) 3

45. Aryabhata excelled in the field of

(A) vedic texts.

(B) medicine.

(C) mathematics and astronomy.

(D) epic writing.

46. Nitrogen gas in the atmosphere is used for

(A) breathing

(B) the growth of living organisms

(C) absorbing heat radiated by the earth

(D) photosynthesis

47. Edmund Hillary, the first man to climb Mt. Everest belonged to

(A) Japan.

(B) New Zealand.

(C) China.

(D) Kenya.

48. Ursa major is a/an

(A) constellation.

(B) universe.

(C) solar system.

(D) galaxy.

49. The planet with maximum number of moons is

(A) Jupiter.

(B) Saturn.

(C) Uranus.

(D) Neptune.

50. Krishnasagar dam is in

(A) Karnataka.

(B) Tamil Nadu.

(C) Kerala.

(D) Andhra Pradesh.

Directions : (51 to 52) In the following question, which option will satisfy the question mark.

51. 11, 15, 19, 23, ?

(A) 26

(B) 27

(C) 28

(D) 29

52. AB , BA, CD, DC, EF, ?

(A) FE

(B) FG

(C) GF

(D) HG

Direction : (53) In the following question, find which one word cannot be made from the letters of the given word.

53. UNCOLOURED

(A) UNDER


(B) COLOUR

(C) LOUD

(D) UNCLASP

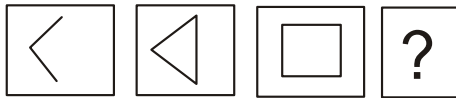
(Space For Rough Work)

Direction : (54) Out of the four figures (A), (B), (C) and (D), given in the problem, three are similar in a certain way. However, one figure is not like the other three. Choose the figure which is different from the rest.

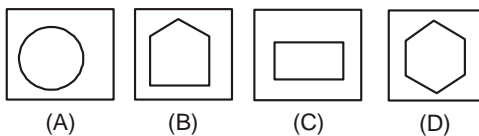
54. 
 (A) (B) (C) (D)

Direction : (55) In the following question, series of figures are given. Find the correct alternative to continue the series.

55. **Problem Figures**



Answer Figures



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

56. I've lost one of my gloves. Iit somewhere.
 (A) must drop (B) must have dropped (C) must be dropping (D) must have been
57. What was wrong with you? Why go to hospital?
 (A) had you to (B) you have to (C) must you (D) None of these
58. It was a great party last night. You come. Why didn't you ?
 (A) must have (B) shall have (C*) ought to have (D) had to
59. It's late. It's time.....home.
 (A) We go (B) We must go (C) We should go (D) we went
60. I'm not tired enough to go to bed. I wouldn't sleep if I.....to bed now.
 (A) go (B) went (C) Had gone (D) Would go

ANSWER KEY

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

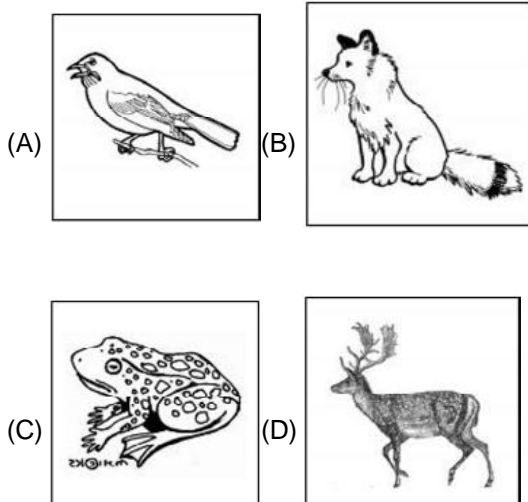
1. 73, 52, 39, 621 has _____ crores.
 (A) 73 (B) 52
 (C) 39 (D) 5
2. M M M stands for _
 (A) 3000 (B) 1000
 (C) 300 (D) 1000
3. Prime factors of 12 are ___
 (A) 5, 2, 3 (B) 2, 2, 3
 (C) 3, 5 (D) 3, 5, 10
4. What value for z makes this number sentence true? $8 \times 37 = (8) \times (30) + (8) \times (z)$
 (A) 7 (B) 8
 (C) 30 (D) 37
5. Monika takes $\frac{1}{6}$ hour to walk to the playground and $\frac{1}{3}$ hour to walk from the play ground to school. How much time does it take her to walk to the playground and then to school?
 (A) $\frac{2}{9}$ hour (B) $\frac{1}{3}$ hour
 (C) $\frac{1}{2}$ (D) $\frac{2}{3}$ hour
6. Naina can type 2520 words in 1 hour. How long will she take to type 1680 words?
 (A) 28 minutes (B) 40 minutes
 (C) 42 minutes (D) 840 minutes
7. Prime factors of 42 are _____
 (A) $2 \times 3 \times 7$ (B) $2 \times 2 \times 3 \times 4$
 (C) $3 \times 3 \times 7$ (D) None of these
8. Number of prime numbers from 1 to 50 are
 (A) 18 (B) 12
 (C) 15 (D) 20
9. The sides of a triangle ABC are in the ratio 3: 4: 5. If the perimeter of triangle ABC is 60, then its lengths of sides are -
 (A) 10, 20 and 30 respectively
 (B) 15, 45 and 20 respectively
 (C) 15, 20 and 25 respectively
 (D) 20, 20 and 20 respectively
10. How many lines of symmetry does a rectangle have?
 (A) Four (B) Three
 (C) Two (D) One
11. A lever which has a fulcrum in the center is the
 (A) First class lever
 (B) Second class lever
 (C) Third class lever
 (D) None
12. S.I unit of an area of a rectangle is
 (A) metre. (B*) square metre.
 (C) cubic metre. (D) 1/metre.
13. What force pulls things toward the centre of Earth?
 (A) Friction (B) Gravity
 (C) Magnetism (D) Electricity
14. The motion of the pendulum of a wall clock exhibiting to and fro movement is called
 (A) periodic motion. (B) rotatory motion.
 (C) rectilinear motion. (D) circular motion.
15. A bowl made of metal is
 (A) transparent. (B) opaque.
 (C) translucent. (D) soft.
16. When object changes its position with time it is said to be in the state of
 (A) Rest (B) Motion
 (C) Both of these (D) None of these

(Space For Rough Work)

17. The length of a tube is 5643 mm. What would be its length when expressed in SI units ?
 (A) 5 m (B) 56 cm
 (C) 5.3 m (D) 5.643 m
18. Which of the following is a natural luminous source of light ?
 (A) Sun (B) Wood
 (C) Electric lamp (D) Torch
19. Jute crop is cultivated in the season of
 (A) summer. (B) winter.
 (C) spring. (D) rain.
20. An example of a water soluble substance is
 (A) sugar (B) iron fillings
 (C) sand (D) oil
21. The part of Earth which contains water is called
 (A) Atmosphere (B) Lithosphere
 (C) Hydrosphere (D) None
22. The envelope of air that surrounds the earth is known as -
 (A) troposphere (B) atmosphere
 (C) exosphere (D) stratosphere
23. Coal is formed from
 (A) rocks (B) mountains
 (C) sand (D) vegetable matter
24. Which element is least like the others in its ability to conduct heat and electricity ?
 (A) Nickel (B) Silver
 (C) Carbon (D) Copper
25. Condensation is a process when
 (A) a liquid changes into its vapours.
 (B) the vapours change into liquid
 (C) ice melts to form water.
 (D) water freezes to form ice.
26. The layer of atmosphere where airplane flies is
 (A) Stratosphere (B) Ionosphere
 (C) Troposphere (D) None of these
27. We can obtain pure water by -
 (A) Sedimentation (B) Decantation
 (C) Distillation (D) Evaporation
28. Which one of the following does NOT help to reduce friction ?
 (A) Grease (B) Soapy water
 (C) Oil (D) Roughness
29. Small changes that take place in the body of a single organism over a short period, to overcome small problems due to changes in the surroundings, are called
 (A) adjustment (B) acclimatisation
 (C) adaptation (D) resettlement
30. Which one of the following clothing material or fabric is not obtained either from plants or from animals ?
 (A) Flax (B) Cotton
 (C) Polyester (D) Jute
31. In humans, deficiency of which of the following vitamins show the symptoms given below ?
The bones become soft and bend
 (A) Vitamin C (B) Vitamin D
 (C) Vitamin A (D) Vitamin B
32. A seed that has two cotyledon that contains stored food is a -
 (A) dicot seed (B) monocot seed
 (C) double seed (D) None
33. The animal having hollow bones is
 (A) Mammals (B) Birds
 (C) Fish (D) None
34. The joints in our fingers are called
 (A) Hinge joints (B) Gliding joints
 (C) Pivot joints (D) None

(Space For Rough Work)

35. The sense organs are controlled by
 (A) Nervous system
 (B) Circulatory system
 (C) Respiratory system
 (D) None of these
36. Common cold and flu are caused by
 (A) Bacteria (B) Protozoa
 (C) Virus (D) None
37. Seeds will not be produced in a plant if all of its are removed.
 (A) Leaves (B) Branches
 (C) Flowers (D) Roots
38. Herbivorous, Carnivorous and omnivorous organisms are divided according to their eating habits. Which one of the following represents a herbivore ?



39. The process of scattering or spreading of seeds to different places is called
 (A) Roaming (B) Migration
 (C) Dispersion (D) Germination

40. In desert plants like cactus, photosynthesis is carried out by:
 (A) stem. (B) root.
 (C) leaf. (D) flower.
41. The president of India is elected for a period of _____ years
 (A) 4 (B) 7
 (C) 6 (D) 5
42. Mahatma Gandhi was born in which year ?
 (A) 1850 (B) 1869
 (C) 1866 (D) 1870
43. The process to perform operation without cutting up the body is called :
 (A) Laser (B) Transplantation
 (C) X-Ray (D) Chloroform
44. _____ introduced the use of chloroform in medicine
 (A) Joseph Lister (B) James Dhipps
 (C) Joseph Jenner (D) James Simpson

45. The modern name of Pataliputra is
 (A) Gujarat. (B) Patna.
 (C) Rajasthan. (D) Punjab
46. Who said 'Swaraj is my birth right and I shall have it.'
 (A) Tilak (B) Lala Lajpat Rai
 (C) Bipin Chandra Pal (D) Bhagat Singh
47. _____ is produced from animal dung.
 (A) Biogas (B) Nuclear Energy
 (C) Wind Energy (D) Solar Energy
48. He undertook a sea - voyage to prove that the earth is round.
 (A) Crates (B) Caroline
 (C) Magellan (D) Nicolas

(Space For Rough Work)

49. Tropic of cancer to located on _____
 (A) $23\frac{1}{2}^{\circ}\text{N}$ (B) $23\frac{1}{2}^{\circ}\text{S}$
 (C) $66\frac{1}{2}^{\circ}\text{N}$ (D) $66\frac{1}{2}^{\circ}\text{S}$
50. Who invented steam engine
 (A) James watt (B) Faraday
 (C) Daimler (D) Edison

Directions : (51) Find the missing Term :

51. 0, 6, 24, 60, ?
 (A) 90 (B) 105
 (C) 115 (D) 120
52. The smallest four digit number that can be formed by using 3, 6, 2, 0
 (A) 3620 (B) 2360
 (C) 2036 (D) 6320
53. If Horse is related to stable, then Lion is related to :
 (A) Small Bridge (B) Hill
 (C) Den (D) pond
54. If *watch* is called *room*, *room* is called *bag*, *bag* is called *rain*, *rain* is called *air* and *air* is called *water*, Which is used to carry the books.?
 (A) room (B) bag
 (C) rain (D) air

Directions : (55) In each of the following questions, there are four choices. Three of them are alike and form a group, while one of them is different. Find the odd-man-out as directed.

55. (A) Banana (B) Apple
 (C) Orange (D) Carrot

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

56. Take this medicine and you will get rid _____ the bad cold.
 (A) from (B) over
 (C) at (D) of
57. My cousin has invested a lot of money _____ farming.
 (A) on (B) in
 (C) both A & B (D) into
58. It is dangerous to enter _____ the enemy's camp.
 (A) in (B) into
 (C) on (D) no preposition
59. He said, "Can you sing?"
 (A) He asked me that could I sing
 (B) He asked me if I can sing
 (C) He asked me if I could be sing.
 (D) He asked me if I could sing .
60. Her hairs are all grey.
 (A) hair has (B) hairs is
 (C) hair is (D) No improvement

ANSWER KEY

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

1. 73, 52, 39, 621 has _____ crores.
 (A) 73 (B) 52
 (C) 39 (D) 5
2. M M M stands for _
 (A) 3000 (B) 100
 (C) 300 (D) 1000
3. Prime factors of 12 are ____
 (A) 5, 2, 3 (B) 2, 2, 3
 (C) 3, 5 (D) 3, 5, 10
4. What value for z makes this number sentence true? $8 \times 37 = (8) \times (30) + (8) \times (z)$
 (A) 7 (B) 8
 (C) 30 (D) 37
5. Monika takes $\frac{1}{6}$ hour to walk to the playground and $\frac{1}{3}$ hour to walk from the play ground to school. How much time does it take her to walk to the playground and then to school?
 (A) $\frac{2}{9}$ hour (B) $\frac{1}{3}$ hour
 (C) $\frac{1}{2}$ hour (D) $\frac{2}{3}$ hour
6. Naina can type 2520 words in 1 hour. How long will she take to type 1680 words?
 (A) 28 minutes (B) 40 minutes
 (C) 42 minutes (D) 840 minutes
7. Prime factors of 42 are _____
 (A) $2 \times 3 \times 7$ (B) $2 \times 2 \times 3 \times 4$
 (C) $3 \times 3 \times 7$ (D) None of these
8. Number of prime numbers from 1 to 50 are
 (A) 18 (B) 12
 (C) 15 (D) 20
9. The sides of a triangle ABC are in the ratio 3: 4: 5. If the perimeter of triangle ABC is 60, then its lengths of sides are -
 (A) 10, 20 and 30 respectively
 (B) 15, 45 and 20 respectively
 (C) 15, 20 and 25 respectively
 (D) 20, 20 and 20 respectively
10. How many lines of symmetry does a rectangle have?
 (A) Four (B) Three
 (C) Two (D) One
11. A lever which has a fulcrum in the center is the
 (A) First class lever
 (B) Second class lever
 (C) Third class lever
 (D) None
12. The diagram below shows a bell ringing.



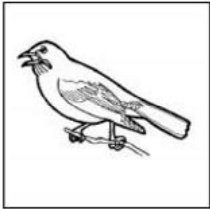
Which form of energy is produced when a bell rings?

- (A) magnetic (B) electrical
 (C) sound (D) light
13. What force pulls things toward the centre of Earth?
 (A) Friction (B) Gravity
 (C) Magnetism (D) Electricity

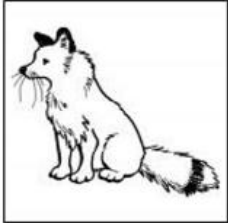
(Space For Rough Work)

14. The motion of the pendulum of a wall clock exhibiting to and fro movement is called
(A) oscillatory motion (B) rotatory motion.
(C) rectilinear motion. (D) circular motion.
15. A bowl made of metal is
(A) transparent. (B) opaque.
(C) translucent. (D) soft.
16. When object changes its position with time it is said to be in the state of
(A) Rest (B) Motion
(C) Both of these (D) None of these
17. The length of a tube is 5643 mm. What would be its length when expressed in SI units ?
(A) 5 m (B) 56 cm
(C) 5.3 m (D) 5.643 m
18. Solar cooker used :
(A) Solar energy (B) Wind energy
(C) Gobar gas (D) None of these
19. Jute crop is cultivated in the season of
(A) summer. (B) winter.
(C) spring. (D) rain.
20. An example of a water soluble substance is
(A) sugar (B) iron fillings
(C) sand (D) oil
21. The part of Earth which contains water is called
(A) Atmosphere (B) Lithosphere
(C) Hydrosphere (D) None
22. The envelope of air that surrounds the earth is known as -
(A) troposphere (B) atmosphere
(C) exosphere (D) stratosphere
23. Coal is formed from
(A) rocks (B) mountains
(C) sand (D) vegetable matter
24. Which element is least like the others in its ability to conduct heat and electricity ?
(A) Nickel (B) Silver
(C) Carbon (D) Copper
25. Condensation is a process when
(A) a liquid changes into its vapours.
(B) the vapours change into liquid
(C) ice melts to form water.
(D) water freezes to form ice.
26. The layer of atmosphere where airplane flies is
(A) Stratosphere (B) Ionosphere
(C) Troposphere (D) None of these
27. We can obtain pure water by -
(A) Sedimentation (B) Decantation
(C) Distillation (D) Evaporation
28. Which one of the following does NOT helps to reduce friction ?
(A) Grease (B) Soapy water
(C) Oil (D) Roughness
29. Small changes that take place in the body of a single organism over a short period, to overcome small problems due to changes in the surroundings, are called
(A) adjustment (B) acclimatisation
(C) adaptation (D) resettlement
30. Which one of the following clothing material or fabric is not obtained either from plants or from animals ?
(A) Flax (B) Cotton
(C) Polyester (D) Jute
31. In humans, deficiency of which of the following vitamins show the symptoms given below ?
The bones become soft and bend
(A) Vitamin C (B) Vitamin D
(C) Vitamin A (D) Vitamin B


(Space For Rough Work)

32. A seed that has two cotyledom that contains stored food is a -
 (A) dicot seed (B) monocot seed
 (C) double seed (D) None
33. The animal having hollow bones is
 (A) Mammals (B) Birds
 (C) Fish (D) None
34. The joints in our fingers are called
 (A) Hinge joints (B) Gliding joints
 (C) Pivot joints (D) None
35. The sense organs are controlled by
 (A) Nervous system
 (B) Circulatory system
 (C) Respiratory system
 (D) None of these
36. Common cold and flu are caused by
 (A) Bacteria (B) Protozoa
 (C) Virus (D) None
37. Seeds will not be produced in a plant if all of its are removed.
 (A) Leaves (B) Branches
 (C) Flowers (D) Roots
38. Herbivorous, Carnivorous and omnivorous organisms are divided according to their eating habits. Which one of the following represents a herbivore ?
- 


(A)



(B)



(C)



(D)
39. The process of scattering or spreading of seeds to different places is called
 (A) Roaming (B) Migration
 (C) Dispersion (D) Germination
40. In desert plants like cactus, photosynthesis is carried out by:
 (A) stem. (B) root.
 (C) leaf. (D) flower.
41. The president of India is elected for a period of _____ years
 (A) 4 (B) 7
 (C) 6 (D) 5
42. Mahatma Gandhi was born in which year ?
 (A) 1850 (B) 1869
 (C) 1866 (D) 1870
43. In olden days, letters were sent through
 (A) Pigeons (B) Internet
 (C) e-mail (D) None of these
44. _____ introduced the use of chloroform in medicine
 (A) Joseph Lister (B) James Dhipps
 (C) Joseph Jenner (D) James Simpson
45. Early human beings expressed their feelings –
 (A) by hearing (B) by drawing
 (C) by singing (D) None of these
46. Who said 'Swaraj is my birth right and I shall have it.'
 (A) Tilak (B) Lala Lajpat Rai
 (C) Bipin Chandra Pal (D) Bhagat Singh
47. _____ is produced from animal dung.
 (A) Biogas (B) Nuclear Energy
 (C) Wind Energy (D) Solar Energy

(Space For Rough Work)

48. Which instrument we use to find out the temperature
 (A) Stethoscope (B) Microscope
 (C) Thermometer (D) None of these
49. Tropic of cancer to located on _____
 (A) $23\frac{1}{2}^{\circ}\text{N}$ (B) $23\frac{1}{2}^{\circ}\text{S}$
 (C) $66\frac{1}{2}^{\circ}\text{N}$ (D) $66\frac{1}{2}^{\circ}\text{S}$
50. Who invented steam engine
 (A) James watt (B) Faraday
 (C) Daimler (D) Edison

Directions : (51) Find the missing Term :

51. $2 \begin{array}{|c|} \hline 3 \\ \hline 1 \\ \hline \end{array} 19 \begin{array}{|c|} \hline 6 \\ \hline 6 \\ \hline \end{array} 53 \begin{array}{|c|} \hline 8 \\ \hline 2 \\ \hline \end{array} ?$
 (A) 0 (B) 1
 (C) 2 (D) 5

Direction : (52) In question number 53, you have been given mathematical expressions where + means \div , - means \times , ? means + and \times means - . Simplify the expression and find the value in each case.

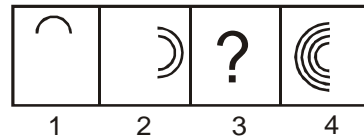
52. $6 - 3 + 1 ? 2 \times 7$
 (A) 9 (B) 13
 (C) 15 (D) 19
53. The smallest four digit number that can be formed by using 3, 6, 2, 0
 (A) 3620 (B) 2360
 (C) 2036 (D) 6320

Direction : (54) In each of the following questions, there are four choices. Three of them are alike and form a group, while one of them is different. Find the odd-one-out as directed.

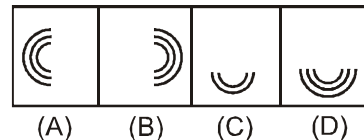
54. (A) Banana (B) Apple
 (C) Orange (D) Carrot

Direction : (55) In the following question, series of figures are given. Find the correct alternative to continue the series.

55. **Problem Figures**



Answer Figure



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

56. Prem would be remembered for his sympathy towards others. The abstract noun in the sentence is
 (A) sympathy. (B) remembered.
 (C) others. (D) Prem.
57. Patna is located on the banks of river Ganga. Here 'on' is a/an
 (A) Adjective. (B) Noun.
 (C) Adverb. (D) Preposition.
58. Palash or his friends
 (A) have paid her fees.
 (B) have paid their fees.
 (C) have paid its fees.
 (D) have paid theirs fees.
59. It was
 (A) me who first protested.
 (B) I who first protested.
 (C) myself who first protested.
 (D) them who first protested.
60. Preeti
 (A) must have reached London by now.
 (B) have to reached London by now.
 (C) dare to reached London by now.
 (D) need to reached London by now

ANSWER KEY

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

1. Which of the following is the smallest fraction ?
- (A) $\frac{3}{12}$ (B) $\frac{5}{9}$
 (C) $\frac{1}{3}$ (D) $\frac{4}{15}$
2. If $x = 1$ and $y = 2$, then the value of the given algebraic expression $x^2y + x^2y^2 - xy^2$ is
 (A) 4. (B) 3.
 (C) 2. (D) 1.
3. Which one of the following is the predecessor of $15 \times 6 + 4 - 149$?
 (A) -56 (B) -55
 (C) -54 (D) -57
4. The sum of the place value of 7 and 4 in 87342 is :
 (A) 11 (B) 7040
 (C) 74 (D) 704
5. Which sum is not negative ?
 (A) $-38 + (-24)$ (B) $-61 + 43$
 (C) $-53 + 72$ (D) $-25 + 0$
6. $27 + 52 + 73 + 10 = 100 + \square$ Which value shall come in the box ?
 (A) 52 (B) 73
 (C) 62 (D) 37
7. Ritu's school is at a distance of 6 km 530 m from her home. She traveled 1 km 70 m by foot and rest by bus. How much distance did she covered by bus ?
 (A) 8.460 km (B) 7.500 km
 (C) 6.490 km (D) 5.460 km
8. The product of two integers is zero. If one of them is -9, find the other.
 (A) +9 (B) 0
 (C) 18 (D) 10
9. How many obtuse angle can a triangle have?
 (A) one (B) two
 (C) Three (D) four
10. Solve for y :
 $2y = 5(3+y)$
 (A) -1 (B) -3
 (C) -4 (D) -5
11. How many centimeter are then in 200 mm ?
 (A) 20 (B) 2
 (C) 0.2 (D) 0.02
12. Which of these are used to produce on electric current ?
 (A) Running water (B) steam
 (C) Wind (D) All of these
13. A high pitched sound has –
 (A) a high frequency. (B) a low frequency.
 (C) a negative frequency.
 (D) a positive frequency
14. When a switch is in ON position, then
 (A) the circuit from the negative terminal to the positive terminal of the battery is complete.
 (B) the circuit from the positive terminal to the negative terminal of the battery is incomplete.
 (C) the circuit is known as the open circuit.
 (D) none of these
15. Magnetic keepers are made up of :
 (A) steel (B) soft iron
 (C) nickel (D) brass
16. Displacement is a :
 (A) scalar quantity (B) vector quantity
 (C) derived quantity (D) linear quantity
17. Sound waves of frequency below 20 Hz are called –
 (A) Audible (B) ultrasonic
 (C) sonic. (D) infrasonic.
18. The prefix kilo means ?
 (A) 10000 (B) 1/1000
 (C) 1000 (D) 100

(Space For Rough Work)

19. Reason for the formation of shadow is that :
 (A) Light can bend around the opaque bodies
 (B) Light rays cannot pierce through the opaque bodies
 (C) Opaque bodies allow the light to pass through them
 (D) None of the above
20. In an image 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.
21. A glass containing muddy water is left undisturbed. After sometime the particles of mud settle at the bottom. This is called
 (A) decantation. (B) filtration.
 (C) sedimentation. (D) evaporation.
22. A change in which the original components do not change their properties are called
 (A) fast change. (B) physical change.
 (C) slow change. (D) chemical change.
23. The growth of the living organism is a
 (A) physical change. (B) chemical change.
 (C) environmental change. (D) social change.
24. Which element is least like the others in its ability to conduct heat and electricity ?
 (A) Nickel (B) Silver
 (C) Carbon (D) Copper
25. _____ covers about 75% of the Earth and is one of the most abundant substances on Earth .
 (A) Water (B) Salt
 (C) Land (D) Metal
26. The process used in the manufacture of salt from sea water is
 (A) condensation. (B) filtration.
 (C) evaporation. (D) sedimentation.
27. The suitable cloth to wear while burning crackers is
 (A) cotton. (B) nylon.
 (C) polyester. (D) rayon.
28. Example of a soft material is
 (A) iron. (B) plastic.
 (C) sponge. (D) wood.
29. There are two substances namely A and B. A allows electricity to pass through it while B does not. Which of the following statements are true based on our observations?
 (A) A is a conductor & B is an insulator.
 (B) A and B are conductors.
 (C) A and B are insulators.
 (D) B is a conductor and A is an insulator.
30. Which of these statement about ice and water is/are true ?
 (i) Both boil at 100°C
 (ii) Both have same state of matter
 (iii) When heated, the ice cubes will directly change to steam
 (iv) Both are different states of water.
 (A) (i) & (ii) (B) (i) & (iv)
 (C) (ii) & (iv) (D) (i) & (iii)
31. The incorrect statement with respect to skeletal system is-
 (A) it forms the framework of body.
 (B) it helps to protect the delicate organs.
 (C) it helps in the movement of the body.
 (D) it helps in digestion of food
32. An exception amongst the given is -
 (A) jointed legs. (B) tail and fins.
 (C) muscular foot. (D) skull.

(Space For Rough Work)

33. Plants with fibrous roots have this kind of venation in their leaves -
 (A) parallel. (B) reticulate.
 (C) lateral. (D) vertical.
34. The pattern of veins on leaf is known as -
 (A) catenation. (B) venation.
 (C) transpiration. (D) decoration
35. The food that is rich in fats is -
 (A) wheat. (B) sweet potato.
 (C) sugarcane. (D) nuts.
36. The uncommon among the given is
 (A) tiger. (B) lion.
 (C) jackal. (D) bear.
37. The product obtained only from plants is
 (A) salt. (B) ghee.
 (C) rice. (D) milk.
38. A malnourished child needs
 (A) medicines. (B) only milk.
 (C) balanced diet. (D) rest.
39. When the venation appears as a net-like design on both sides of the midrib it is called:
 (A) parallel venation.
 (B) simple venation.
 (C) reticulate venation.
 (D) random venation.
40. The outer skeleton of a snail is called
 (A) shell. (B) skull.
 (C) backbone. (D) cartilage
41. Who was the first president of U.S.A ?
 (A) G.W. Bush (B) B. Obama
 (C) A. Lincoln (D) G.Washington
42. Another word used for 'vehicles' is
 (A) Automobile . (B) Cars.
 (C) Transport. (D) None of these.
43. Holy book of muslims is
 (A) Gita (B) Quran
 (C) Bible (D) Angas
44. 'Monalisa' is a famous :
 (A) Director . (B) Book
 (C) Movie . (D) Painting
45. The latitudes are measured in
 (A) degree centigrade. (B) degrees.
 (C) km. (D) light years.
46. The Earth is divided into
 (A) one heat zone. (B) two heat zones.
 (C) three heat zones. (D) four heat zones.
47. An Imaginary line on which the earth spins.
 (A) Arctic circle (B) Tropic
 (C) Axis (D) Equator
48. Indian parliament is situated in :
 (A) Calcullta (B) Mumbai
 (C) Chennai (D) Delhi
49. The largest and smallest state in terms of area in India are
 (A) Madhya Pradesh and Goa.
 (B) Rajasthan and Goa.
 (C) Delhi and Gujarat.
 (D) Kerela and Sikkim.
50. The voting age in India is
 (A) 18 years. (B) 20 years.
 (C) 21 years. (D) 25 years
- Directions (51 & 52) Find the missing terms.**
51. 1, 3, 7, 15, 31, ?
 (A) 61 (B) 63
 (C) 65 (D) 67
52. 1, 4, 5, 8, 9, _
 (A) 11 (B) 13
 (C) 12 (D) 10
53. If **RED** is written as **24** and **GREEN** is written as 44 then **WHITE** will be written as:
 (A) 59 (B) 45
 (C) 60 (D) 65

(Space For Rough Work)

54. If for **Cloud** is said **Rain** for **Rain** is said **Tree**; for **Tree** is said **Axe** for **Axe** is said **House** and for **House** is said **Mason** then from which of the following wood can be obtained ?
 (A) Tree (B) Rain
 (C) Axe (D) House
55. Find the mirror image of VINAYAKA
 (A) INVAYAKA (B) AKAYANIV
 (C) AKAYANIV (D) AKAYANIV
- Direction : (56 to 60) Tick the correct alternative-**
56. Synonym of the word 'Deceive' is-
 (A) Pound (B) Cheat
 (C) Vibrate (D) Wallop
57. Synonym of the word 'Murmur' is-
 (A) Whisper (B) Shout
 (C) Dumb (D) Fact
58. Antonym of the word 'Brutal' is-
 (A) Cruel (B) Gentle
 (C) Barbarous (D) Inhuman
59. _____ did you live before you came to Indore?
 (A) What (B) When
 (C) Where (D) However
60. Could you please give some _____ about the examination schedule?
 (A) Information (B) Informations
 (C) Both the above (D) None of the above

ANSWER KEY

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