

GENERAL INSTRUCTIONS FOR SAMPLE TEST PAPERS FOR NEO-SAT/NEO-FAST

STUDENTS MOVING TO CLASS-VIII

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

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1. Simplify:
 $\left[\left\{ \left(\frac{-1}{4} \right)^2 \right\}^{-2} \right]^{-1}$
- (A) 256 (B) $\frac{1}{256}$
 (C) $\frac{1}{81}$ (D) none of these
2. Evaluate : $\left(\frac{2}{5} \right)^3 \times \left(\frac{5}{2} \right)^4 \times 10$.
- (A) 25 (B) 2.5
 (C) $\frac{3}{5}$ (D) 10
3. $\left(\frac{12}{35} \right)^4$ is equal to :
- (A) $\frac{2^8 \times 3^4}{5^4 \times 7^4}$ (B) $\frac{2^2 \times 3^1}{5 \times 7}$
 (C) $\frac{12^4}{7 \times 5}$ (D) $\frac{4^2 \times 3^2}{7^2 \times 5^2}$
4. A rectangular sheet of paper is $5 \frac{1}{2}$ cm long and $10 \frac{2}{3}$ cm wide. Perimeter of its rectangle is:
- (A) $\frac{57}{3}$ cm (B) $\frac{47}{3}$ cm
 (C) $\frac{37}{3}$ cm (D) $\frac{97}{3}$ cm
5. In the following rational numbers, x is a positive integer. Which among these is the least ?
- (A) $\frac{-x}{3}$ (B) $\frac{-x}{4}$
 (C) $\frac{x}{5}$ (D) $\frac{-x}{6}$
6. If the first, second and the fourth terms of a proportion are 6, 18 and 75 respectively, then its third term is :
- (A) 25. (B) 20.
 (C) 15. (D) 10.
7. In unitary method, we first find out the value of the
- (A) required quantity
 (B) given quantities
 (C) unit quantity
 (D) sum of all quantities
8. If the cost of five rolls of camera film is Rs. 500, then the cost of eight such camera rolls is :
- (A) Rs 800. (B) Rs 700.
 (C) Rs 650. (D) Rs 600.
9. The length of a playground is thrice its breadth. If the perimeter of the playground is 240 m, then its length in metres is:
- (A) 60 (B) 30
 (C) 90 (D) 120
10. If there are x rows of chairs and each row contains x^2 chairs. The total number of chairs is :
- (A) x^2 (B) x^3
 (C) x^4 (D) x^5

Space For Rough Work

11. Which one of the following is the nearest planet to the sun ?
 (A) Mercury (B) Earth
 (C) Mars (D) Mars
12. Materials which allow larger currents to flow through them are called :
 (A) insulators (B) semi-conductors
 (C) conductors (D) alloys
13. A player in long jump ran fast to gain which of the following physical quantity ?
 (A) Energy (B) Impulse
 (C) Force (D) Momentum
14. Which one of the following planets contains the 'Great Red Spot' ?
 (A) Saturn (B) Mars
 (C) Jupiter (D) Pluto
15. Speed of light in air is :
 (A) 300000 km/s (B) 225000 km/s
 (C) 180000 km/s (D) 180000 m/s
16. Wires are used to :
 (A) stop the flow of current .
 (B) connect various components in the circuit.
 (C) mark the connections.
 (D) know about the direction of current.
17. Vehicles have :
 (A) convex mirrors.
 (B) plane mirrors.
 (C) concave mirrors.
 (D) combination of concave and convex mirrors.
18. The reason assigned for the formation of day and night on the earth is the :
 (A) revolution of the sun around the earth.
 (B) revolution of the earth around the sun.
 (C) rotation of the earth on its own axis.
 (D) revolution of the moon around the earth.
19. Muscular force is exerted by
 (A) Walls (B) Muscles
 (C) Heavy objects (D) Vehicles
20. A polished or a shiny surface can act as a :
 (A) lens. (B) glass.
 (C) mirror. (D) surface.
21. We can remove soluble impurities by
 (A) Sedimentation (B) Decantation
 (C) Distillation (D) Evaporation
22. Cotton is obtained from
 (A) roots of the plant.
 (B) the balls of the cotton plant.
 (C) stem of the cotton plant.
 (D) leaves of the plant.
23. Silk fibre is obtained from
 (A) fruit of a plant. (B) bark of a plant.
 (C) cocoon of worm (D) hair of an animal.
24. The paper used in the process of filtration to separate a mixture of sand and water is
 (A) butter paper. (B) plain paper.
 (C) tissue paper. (D) filter paper.
25. The gaseous phase of water vapour changes to the liquid phase by
 (A) evaporation. (B) condensation.
 (C) distillation. (D) sublimation.
26. Special type of substances are used to test whether the given substance is acidic or basic. These substances are known as:
 (A) Indicators. (B) Testers.
 (C) Analyzers. (D) Observers.

Space For Rough Work

27. Galvanisation is a process of depositing a layer of
 (A) copper on iron.
 (B) zinc on iron.
 (C) aluminum on iron.
 (D) nickel on iron.
28. A rare and expensive fibre called cashmere is obtained from
 (A) sheep. (B) camel.
 (C) rabbit. (D) goat.
29. Chemically Baking soda is
 (A) Sodium carbonate
 (B) Sodium bicarbonate.
 (C) Calcium carbonate.
 (D) Sodium hydroxide.
30. The growth of the living organism is a
 (A) physical change.
 (B) chemical change.
 (C) environmental change.
 (D) social change.
31. Organisms that live on trees are called :
 (A) arial (B) arboreal
 (C) terrestrial (D) aquatic
32. Soil erosion due to running water can be checked by :
 (A) animal grazing (B) afforestation
 (C) building reservoirs (D) deforestation
33. Ptyalin enzyme is secreted by :
 (A) Salivary gland (B) Mouth
 (C) Oesophagus (D) Stomach
34. Leaves respire with the help of :
 (A) Lenticles (B) Stomata
 (C) Plasmodesmata (D) Cuticle
35. Blood leaving lungs is rich in :
 (A) oxygen (B) carbon dioxide
 (C) haemoglobin (D) number of RBC
36. Tooth decay is caused due to the deficiency of :
 (A) vitamin A. (B) iron.
 (C) iodine. (D) calcium
37. When a polythene bag is tied around the leaf of a plant, the water droplets appear on it due to:
 (A) perspiration. (B) transpiration.
 (C) evaporation. (D) condensation.
38. In amoeba absorption of the digested nutrients occurs in :
 (A) cytoplasm
 (B) plasma membrane
 (C) contractile vacuole
 (D) pseudopodia
39. Which of the following chemical reaction shows the aerobic respiration ?
 (A) $6\text{CO}_2 + 6\text{H}_2\text{O} \longrightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
 (B) $\text{C}_6\text{H}_{10}\text{O}_2 + 6\text{O}_2 \longrightarrow 6\text{CO}_2 + 5\text{H}_2\text{O} + 674 \text{ KCal}$
 (C) $\text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 \longrightarrow 6\text{CO}_2 + 6\text{H}_2\text{O} + 678 \text{ KCal}$
 (D) $\text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 \longrightarrow 6\text{H}_2\text{CO}_3$
40. Valves that direct the flow of blood only in one direction are present in :
 (A) arteries. (B) veins.
 (C) capillaries. (D) none of these
41. The foundation of Rashtrakutas dynasty was laid down by :
 (A) Amoghavarsha-I (B) Dantidurga
 (C) Indra-III (D) Krishna-I

Space For Rough Work

42. Itutmish was succeeded by his daughter :
 (A) Jaziya in 1236.
 (B) Raziya in 1236.
 (C) Sultana in 1236.
 (D) Jhan Ara in 1236.
43. One of the healthiest countries in South America is
 (A) Argentina. (B) Brazil.
 (C) Venezuela. (D) Costa Rica.
44. How the status of Women can be improved in the society ?
 (A) Through education
 (B) Financial Assistance
 (C) Denying them social recognition
 (D) Providing them limited number of job opportunities
45. Large scale production was possible because of :
 (A) information revolution.
 (B) industrial revolution.
 (C) silver revolution.
 (D) white revolution.
46. Type of rock containing fossils of plants, animals and other microorganisms that once lived on them is :
 (A) sandstone. (B) granite.
 (C) basalt. (D) marble.
47. From the following an example of the endogenic force is :
 (A) River (B) Volcano
 (C) Wind (D) Glacier
48. The product that is not provided by animals is:
 (A) Meat (B) Cotton
 (C) Milk (D) Silk
49. An example of a star is :
 (A) Moon. (B) Sun.
 (C) Earth. (D) Jupiter.
50. Election is a :
 (A) name of a public office.
 (B) decision making process.
 (C) voters place.
 (D) counting of votes.

Directions : (51 to 52) Find the missing term :

51. 1, 3, 7, 13, ?
 (A) 19 (B) 23
 (C) 21 (D) 25
52. GRPT, HSQS, ITRR, ?, KVTP, LWUO
 (A) USJQ (B) QSUJ
 (C) JSQR (D) JUSQ

Directions : (53 & 54) Find the wrong term (s) :

53. 3, 9, 27, 82, 243
 (A) 27 (B) 54
 (C) 82 (D) 162
54. EPU, FQW, GRX, HSY, ITZ
 (A) FQW (B) EPU
 (C) GRX (D) HSY
55. k _ mk _ lmkl _ kk _ mk
 (A) lklm (B) lkml
 (C) lkmm (D) lkml

Direction(56 to 60) Tick the correct alternative-

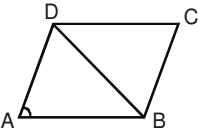
56. Where.....? Which hairdresser did you go to?
 (A) Did you cut your hair
 (B) Have you cut your hair
 (C) Did you have cut your hair
 (D) did you have your hair cut

Space For Rough Work

57. Hello Jim. I didn't expect to see you today. Sonia said youill.
 (A) are (B) were
 (C) was (D) should be
58. Annand left.
 (A) said goodbye to me
 (B) said me goodbye
 (C) told me goodbye
 (D) None of these
59. 'How.....?' 'Nobody knows'.
 (A) happened the accident
 (B) did happen the accident
 (C) did the accident happen
 (D) None of these
60. The police officer stopped us and asked us where.....
 (A) were we going (B) are we going
 (C) we are going (D) we were going

ANSWER KEY

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

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) gunning
 (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
 (B) chemical 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. Mehrangarh fort is situated at :
 (A) Jaipur (B) Jodhpur
 (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) Find the missing numbers :

51.
$$\begin{array}{c} 4 \\ \circlearrowleft \\ 5 \quad 0 \quad 6 \\ \circlearrowright \\ 7 \end{array} \quad \begin{array}{c} 8 \\ \circlearrowleft \\ 7 \quad 1 \quad 6 \\ \circlearrowright \\ 4 \end{array} \quad \begin{array}{c} 0 \\ \circlearrowleft \\ 11 \quad ? \quad 2 \\ \circlearrowright \\ 2 \end{array}$$

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

Space For Rough Work

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

958539963685444639902081364293569666

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

53. Pointing to a photograph, a lady tells Amit, "I am the only daughter of this lady and her son is your material 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)

54. 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 : (55) 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 :

55. Bird : Fly :: Snake : ?

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

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

56. I was disappointed _____ not finding the doctor in his seat.

- (A) on (B) from
(C) at (D) over

57. There is no exception _____ this rule.

- (A) in (B) to
(C) for (D) about

58. Please help me. The correct passive voice will be-

- (A) You were requested to help me.
(B) You are being requested to help me.
(C) You are requested to help me.
(D) You have been requested to help me.

59. I know him. The correct passive voice will be-

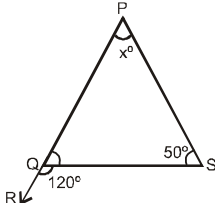
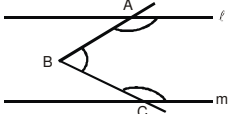
- (A) He is known by me.
(B) He was known to me.
(C) He has been known by me.
(D) He is known to me.

60. Who taught her such things? The correct passive voice will be-

- (A) Who was she taught such things by?
(B) She were taught such things by who?
(C) By whom she was taught such things?
(D) By whom were she taught such things?

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

1. If the area of a circle is 100 times the area of another circle, then the ratio of circumferences of circles is :
 (A) 10 : 1 (B) 1 : 10
 (C) 5 : 1 (D) 1 : 5
2. If $3\frac{2}{5} = 3 + x$, then x equals :
 (A) $\frac{3}{5}$ (B) $\frac{1}{5}$
 (C) $\frac{2}{5}$ (D) $3\frac{2}{5}$
3. Samon travelled 5 km 52 m by bus, 2 km 265 m by car and the rest 1 km 30 m he walked. Total distance travelled by him is :
 (A) 8.347 km (B) 8.000 km
 (C) 8.925 km (D) 9.000 km
4. The number 35, 105, 385 is divisible by :
 (A) 5 (B) 7
 (C) both 5 & 7 (D) None of these
5. Measure of x° in the given figure is :

 (A) 60° (B) 70°
 (C) 80° (D) 55°
6. In the diagram, ℓ and m are parallel line. The sum of the angles A, B and C marked in the diagram is :

 (A) 180° (B) 270°
 (C) 360° (D) 300°
7. An angle is equal to five times its complement. Determine its measure.
 (A) 60° (B) 75°
 (C) 15° (D) 30°
8. A ladder 25 m long reaches a window of a building 20 m above the ground. Determine the distance of the foot of the ladder from the building.
 (A) 5 m (B) 10 m
 (C) 15 m (D) 25 m
9. If the supplement of an angle is three times its complement, then angle is :
 (A) 40° (B) 35°
 (C) 50° (D) 45°
10. Median of the values 37, 31, 42, 43, 46, 25, 39, 45, 32 is :
 (A) 29 (B) 39
 (C) 37 (D) None of these
11. An image formed by a plane mirror is :
 (A) upside down.
 (B) equidistant from mirror as the object.
 (C) smaller than the object
 (D) not laterally inverted
12. Transparent glasses which are thicker in the middle than at the edges are :
 (A) concave lenses (B) concave mirrors
 (C) convex mirrors (D) convex lenses
13. Electric bell
 (A) has filament
 (B) has an electromagnet
 (C) works on heating effect of current
 (D) none of these
14. Speed of 90 km/h when expressed in m/s is :
 (A) 2.5 (B) 25
 (C) 250 (D) 2500

(Space For Rough Work)

15. The speed of the car is 30 km/h. So, in 30 minutes the distance covered by this car is :
 (A) 10 km. (B) 5 km.
 (C) 12 km. (D) 15 km.
16. Air expands on :
 (A) Cooling (B) Heating
 (C) Both (A) and (B) (D) None of these
17. The temperature which has the same value on celsius and fahrenheit scales is :
 (A) -40 (B) -20
 (C) 0 (D) 40
18. 1 Joule is equal to :
 (A) 9.8 m/ s². (B) 100,000 erg.
 (C) 1,000,000 erg. (D) 10,000,000 erg.
19. A bad conductor of electricity is :
 (A) distilled water.
 (B) sulphuric acid in distilled water.
 (C) common salt in distilled water.
 (D) sodium hydroxide in distilled water.
20. Waves of frequency greater than 20,000 Hz are called as :
 (A) panasonic (B) ultrasonic
 (C) sonic (D) infrasonic
21. Small droplets are seen on the bottle of water when removed from refrigerator due to -
 (A) deposition of water
 (B) condensation of water vapour from surroundings
 (C) evaporation of water
 (D) None of these
22. When water solidifies its volume :
 (A) increases
 (B) increases first then decreases
 (C) decreases
 (D) No effect
23. Part of air that supports burning :
 (A) Nitrogen (B) Oxygen
 (C) carbon dioxide (D) None of these
24. The material that settles at bottom when waste water stands still is called -
 (A) scum (B) sludge
 (C) sewer (D) none of these
25. An example of a base which is without a metal atom, is -
 (A) sodium hydroxide
 (B) magnesium hydroxide
 (C) ammonium hydroxide.
 (D) potassium hydroxide
26. The aqueous solution of sulphur dioxide is -
 (A) acidic in nature.
 (B) basic in nature
 (C) neutral in nature
 (D) Both (A)& (B)
27. The process of obtaining jute fibres from its stem is known as -
 (A) bales. (B) gunning.
 (C) bobbing. (D) retting.
28. When an acid and a base react, the temperature of reaction mixture
 (A) increases (B) decreases
 (C) remains unchanged (D) none of these
29. In acid , methyl orange turns -
 (A) yellow (B) green
 (C) red (D) white
30. When an acid is slowly added to water -
 (A) it releases heat
 (B) it absorbs heat
 (C) there is no heat change
 (D) none of these

(Space For Rough Work)

31. Photosynthesis is a -
 (A) natural process
 (B) biochemical process
 (C) manmade process
 (D) physical process
32. Amoeba takes food through-
 (A) Probosis (B) Pseudopodia
 (C) Cilia (D) Tentacles
33. Polar bears have a layer of fat under their skins which helps in
 (A) respiration (B) feeding
 (C) temperature control (D) protection
34. Arteries and veins are joined by a network of -
 (A) valves. (B) muscles.
 (C) capillaries. (D) platelets.
35. The main respiratory organs of a cockroach are-
 (A) lungs (B) trachea
 (C) skin (D) gills
36. The process of soil formation by breaking - down of rocks by the action of wind, water and climate is called -
 (A) Weathering (B) Erosion
 (C) Filtration (D) Evaporation
37. Two parents take part in the event of -
 (A) asexual reproduction.
 (B) sexual reproduction.
 (C) fragmentation.
 (D) sporogenesis.
38. Blood vessels which carry oxygen rich blood from heart to all parts of the body have _____ walls.
 (A) thin (B) thick
 (C) no (D) double
39. Stomach secretes -
 (A) concentrated hydrochloric acid
 (B) dilute sulphuric acid
 (C) dilute citric acid
 (D) dilute nitric acid
40. How much percentage of the atmosphere constitution of carbon-di-oxide ?
 (A) 21% (B) 0.03%
 (C) 0.93% (D) 1%
41. Under Which Guru Khalsa revolted against Mughal authority & declared their sovereign rule by striking coins in the name of other Gurus -
 (A) Guru Arjun Dev
 (B) Guru Govind Singh
 (C) Guru Banda Bahadur
 (D) Guru Nanak
42. Which city is called the city of ruins ?
 (A) Hampi (B) Vijay nagar
 (C) Surat (D) Bangalore
43. Name the Tughlaq Sultan famous for his ambitious schemes and unique experiments -
 (A) Firoz - Shah - Tughluq
 (B) Ghiyas -ud-din Tughluq
 (C) Muhammad - bin-Tughluq
 (D) Sikandar Lodi
44. The country with largest railway network in Asia is -
 (A) Japan (B) India
 (C) China (D) Pakistan
45. Basholi style of miniature painting was developed in -
 (A) Rajasthan
 (B) Delhi
 (C) Himachal Pradesh
 (D) Jammu & Kashmir
46. The construction of Qutub-Minar was completed by -
 (A) Qutabud- din-Aibak
 (B) Shamsud- din-Iltutmish.
 (C) Bahaud- din-Balban
 (D) Aram Shah.

(Space For Rough Work)

47. Erosion breaks the roof of the sea arches and only walls are left. These walls like features are called :

- (A) sea cliffs (B) caves
(C) stacks (D) beaches.

48. Cooling of molten magma inside the earth's surface is known as :

- (A) extrusive rocks
(B) intrusive rocks
(C) sedimentary rocks
(D) metamorphic rocks

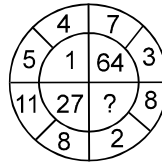
49. The first autobiography of a woman titled "Amar Jiban" was written by

- (A) Rashsundari Devi
(B) Sakuntla Devi
(C) Vijay Laxmi Pandit
(D) Sarojini Naidu

50. Match the following with the code given below:

- | Column A | Column B |
|------------------|--------------|
| a. Argentina | (i) Down |
| b. Australia | (ii) Pampas |
| c. North America | (iii) Veld |
| d. South Africa | (iv) Prairie |
- (A) a(ii), b(i), c(iv), d(iii)
(B) a(iii), b(i), c(iii), d(iv)
(C) a(i), b(ii), c(iii), d(iv)
(D) a(iv), b(i), c(ii), d(iii)

Directions (51) : Find the missing term :



51.

- (A) 125 (B) 216
(C) 121 (D) 225

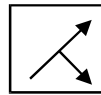
52. A rabbit runs 30' towards East and turns to right, runs 20' and turns to right, runs 19' and again turns to left, runs 15' and then turns to left, runs 22' and finally turns to left and runs 16'. Now, which direction is the rabbit facing ?

- (A) East (B) West
(C) North (D) South

53. Bank is related to 'Money' in the same way as 'Transport' is related

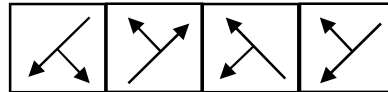
- (A) Goods (B) Road
(C) Terrace (D) Floor

Direction : (54) In the following questions, choose the correct mirror image from alternatives A, B, C, and D of the figure (X).



54.

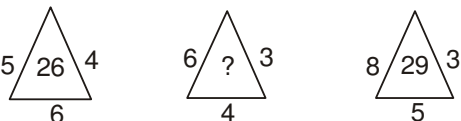
(X)



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

(Space For Rough Work)

Direction (55): Find the missing numbers :

55. 
- (A) 32 (B) 22
(C) 18 (D) 27

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

56. The much-awaited film
(A) releasing on 21st May.
(B) release on 21st May.
(C) releases on 21st May.
(D) will have released on 21st May.
57. Many board games and computer games
(A) are enjoyable even if educational.
(B) are not only enjoyable however also educational.
(C) are not only enjoyable moreover also educational.
(D) are not only enjoyable but also educational.

58. Rashmi doesn't like
(A) watching movies
(B) watched movies.
(C) watch movies.
(D) doing watching movies.
59. The thieves entered
(A) the house. (B) into the house.
(C) at the house. (D) with the house.
60. Riya asked Shreya, " Are you aware of this route?". Indirect speech is
(A) Riya asked Shreya that is she aware of this route.
(B) Riya asked Shreya whether she were aware of that route.
(C) Riya asked Shreya was she aware of that route.
(D) Riya asked Shreya whether she was aware of that route.



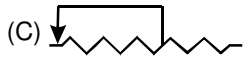

ANSWER KEY

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

1. Value of $\left\{6^{-1} + \left(\frac{3}{2}\right)^{-1}\right\}^{-1}$ is :
- (A) $\frac{2}{3}$ (B) $\frac{5}{6}$
 (C) $\frac{6}{5}$ (D) $\frac{3}{2}$
2. The value of $(-5) + (-4) - (-4) - (-5) + (-5) + (-4) - (-5) - (-4)$ is :
- (A) 0 (B) 4
 (C) -4 (D) -5
3. $5 - \left[\frac{3}{4} + \left\{ 2\frac{1}{2} - \left(0.5 + \frac{1}{6} - \frac{1}{7} \right) \right\} \right]$ is equal to :
- (A) $2\frac{23}{84}$ (B) $3\frac{1}{6}$
 (C) $3\frac{3}{10}$ (D) $5\frac{1}{10}$
4. Value of a & b in the expression $\frac{7}{15} = \frac{35}{a} = \frac{-63}{b}$ is :
- (A) a = 55 & b = -120
 (B) a = 75 & b = -135
 (C) a = 45 & b = -75
 (D) None of these
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. Which of the following can not be the probability of any events.
- (A) 1 (B) 0
 (C) $\frac{2007}{2008}$ (D) $\frac{1001}{1000}$
7. One fourth of a number exceeds one fifth of its succeeding number by 3. Find the number.
- (A) 65 (B) 64
 (C) 32 (D) None of these
8. Three out of the following four expression are exactly equal. Find the expression, which is not equal to the other three.
- (A) $12^2 \div 16 + 7 \times 3$
 (B) $16 \times 9 \div 12 + 9 \times 2$
 (C) $18^2 \div 12 + 3$
 (D) $18 \times 6 \div 12 + 7 \times 2$
9. 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
10. 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.
11. Which of the following quantity remains the same when light goes from one medium to another medium ?
- (A) Speed (B) Frequency
 (C) Wavelength (D) Intensity

Space For Rough Work

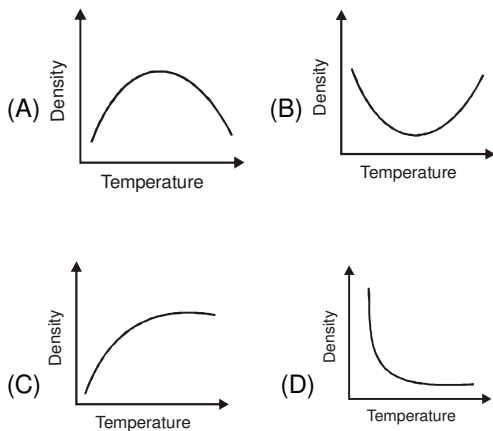
12. Which of the following is correct symbol of Rheostat :

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

13. A boy is suffering from fever and doctor said that his body temperature is 105. Then temperature should be expressed in :

- (A) °C (B) °F
(C) K (D) all of these

14. From the following, which graph explains the variation of density of water with temperature ?



15. When the object is at infinity, a concave mirror forms the image at :

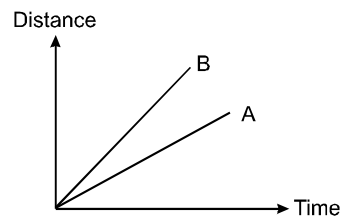
- (A) focus
(B) centre of curvature
(C) between focus and centre of curvature
(D) beyond centre of curvature

16. When two bodies are rubbed against each other:
(A) they acquire equal and similar charges
(B) they acquire equal and opposite charges
(C) they acquire different charges in different amounts depending upon their masses
(D) they do not acquire any charge

17. When an uncharged body touches a charged body :
(A) uncharged body acquires similar charge
(B) uncharged body acquires an equal and opposite charge
(C) charged body acquires opposite charge
(D) uncharged body does not acquire any charge

18. In an electric fan :
(A) mechanical energy is converted into electrical energy
(B) electrical energy is converted into mechanical energy
(C) electrical energy is converted into heat energy
(D) heat energy is converted into electrical energy

19. Which of the two cars A and B whose distance time graphs are given is faster :



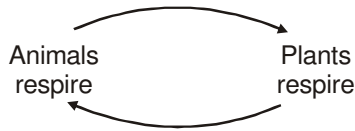
- (A) A
(B) B
(C) Both have equal speed
(D) None of these

Space For Rough Work

20. Which frequency of sound will be heard by us?
 (A) 10 Hz (B) 16 Hz
 (C) 18 Hz (D) 25 Hz
21. The acid present in aerated drinks is -
 (A) citric acid (B) carbonic acid
 (C) amino acid (D) acetic acid
22. If H^+ ions are more than OH^- ions in a solution, then the solution is -
 (A) neutral (B) basic
 (C) acidic (D) None of these
23. Alkalis are the bases, which are
 (A) soluble in water (B) insoluble in water
 (C) both (A) and (B) (D) None of these
24. Aqua regia is mixture of -
 (A) conc. HCl & conc. HNO_3 (1 : 3 by volume)
 (B) conc. HNO_3 & conc. HCl (1:3 by volume)
 (C) equal volumes of conc. HNO_3 & conc. HCl
 (D) conc. HNO_3 and conc. H_2SO_4 (1:3 by volume)
25. Lime water is :
 (A) dilute solution of $Ca(OH)_2$
 (B) $Mg(OH)_2$ solution
 (C) NaOH solution
 (D) KOH solution
26. The constituent of air that supports combustion is-
 (A) oxygen (B) nitrogen
 (C) carbon dioxide (D) (A) and (B) both
27. Chemical formula of baking soda is :
 (A) $MgSO_4$ (B) Na_2CO_3
 (C) $NaHCO_3$ (D) $MgCO_3$
28. The acid present in lemon is :
 (A) citric acid (B) oxalic acid
 (C) acetic acid (D) hydrochloric acid
29. $CuO + (X) \longrightarrow CuSO_4 + H_2O$. Here (X) is :
 (A) $CuSO_4$ (B) HCl
 (C) H_2SO_4 (D) HNO_3
30. Eri is a type of -
 (A) silk (B) wool
 (C) cotton (D) None of these
31. Valves present in -
 (A) veins (B) Artery
 (C) both of these (D) none of these
32. Which blood group is universal acceptor ?
 (A) O (B) AB
 (C) A (D) B
33. Which gas is said to be known as "green house gas" ?
 (A) O_2 (B) CO_2
 (C) N_2 (D) All of the above
34. Which cell organelle is responsible for photosynthesis ?
 (A) Chloroplast (B) Mitochondria
 (C) Ribosome (D) Lysosome
35. Camel is best adapted to desert habitat as :
 (A) it can drink 50 litres of water at a time which is evenly distributed in all its tissues.
 (B) it excretes very small amount of water during urination.
 (C) it can regulate its body temperature at a wider range
 (D) all are correct

Space For Rough Work

36. Look at the diagram given below.



The plants and animals are exchanging _____ for their life processes to take place.

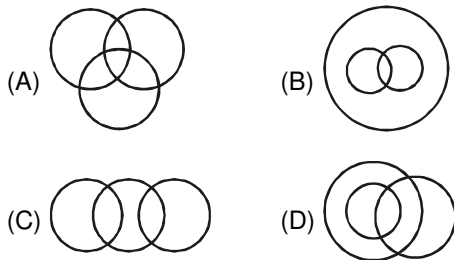
- (A) space (B) gases
(C) nutrients (D) shelter
37. Respiratory organs of amphibians is/are :
(A) Lungs (B) Buccal cavity
(C) Skin (D) All of these
38. Which of the following is an example of a decomposer in the food web ?
(A) A tree growing in a field
(B) A grasshopper eating leaves
(C) A seagull catching a fish
(D) A fungus growing on dead bodies
39. The heart beat of a young man is approximately:
(A) 70 times per minute
(B) 72 times per minute
(C) 80 times per minute
(D) None of these
40. In which of the following animals bones are not present ?
(A) Earthworm (B) Snail
(C) Cockroach (D) All of these
41. The Sikh Khalsa was founded by –
(A) Guru Teg Bahadur
(B) Guru Nanak
(C) Guru Gobind Singh
(D) Guru Hargobind
42. Earth's crust below the oceans is composed of –
(A) Sedimentary rocks (B) Igneous rocks
(C) Metamorphic rocks (D) Both (B) and (C)
43. Which is the largest fresh water lake of India ?
(A) Dal lake (B) Nanital
(C) Barapani (D) Wular lake
44. Who is considered to be the architect of the Indian Constitution ?
(A) B.R. Ambedkar (B) Jawaharlal Nehru
(C) Rajendra Prasad (D) B.N. Rao
45. Where is Manas Wild Life Sanctuary situated ?
(A) Assam (B) Bihar
(C) Orissa (D) West Bengal
46. The constitution was finally declared by members of the constituent Assembly on ?
(A) 16 November, 1949
(B) 26 November, 1949
(C) 26 January, 1950
(D) 24 January, 1950
47. Which of the following is not a temperate grassland ?
(A) South Africa (B) Australia
(C) Argentina (D) New Zealand
48. Which ruler first established his or her capital of Delhi ?
(A) Tomar Rajputs (B) Chauhan Rajput
(C) Sisodiya Rajputs (D) Afghan rulers
49. Name the highest official appointed by government at the Block level :
(A) Collector
(B) Block officer
(C) Block development officer
(D) Block level officer

Space For Rough Work

50. The upper house in the state Legislature is known as the :
 (A) Vidhan Parishad (B) Vidhan Sabha
 (C) Lok Sabha (D) Rajya Sabha
51. 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
52. 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
53. How many times the same number comes three times one after the other ?
 958539963685444639902081364293569666
 (A) 1 (B) 3
 (C) 2 (D) 0

Direction : (54) 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 :

54. Bird : Fly :: Snake : ?
 (A) Timid (B) Clatter
 (C) Crawl (D) Hole
55. Which one of the following diagrams correctly represents the relationship among the classes: Tennis fans, Cricket players, Students ?



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

56. He was exhausted
 (A) since he finished exercising.
 (B) after he finished exercising.
 (C) while he finished exercising.
 (D) as he finished exercising.
57. She left the stage
 (A) as soon as she finished singing.
 (B) while she finished singing.
 (C) till she finished singing.
 (D) so that she finished singing.
58. There will be a test
 (A) tomorrow. Is come fully prepared.
 (B) tomorrow. Has come fully prepared.
 (C) tomorrow. Have come fully prepared.
 (D) tomorrow. Do come fully prepared.
59. Nadal is a true champion. He
 (A) does play with a lot of passion.
 (B) had play with a lot of passion.
 (C) was play with a lot of passion.
 (D) were play with a lot of passion.
60. Neither the doctor nor the nurses
 (A) was present in the hospital.
 (B) is present in the hospital.
 (C) were present in the hospital.
 (D) am present in the hospital.

ANSWER KEY

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