SCHOLASTIC APTITUDE TEST NMMSSE 2021-22

Std. VIII

Q. 1. A negatively charged body has

1. more electrons than protons
2. less electrons than protons
3. More protons and electrons
4. More protons and electrons

Q. 2. The correct arrangement in decreasing order of electrical conductivity is

1. Aluminium, Silver, Gold, Copper
2. Copper, Gold, Silver, Aluminium
3. Gold, Silver, Aluminium, Copper
4. Silver, Copper, Gold, Aluminium

Q. 3. If V is the voltage applied across the conductor, I is the current flowing through the conductor and R is the resistance of a conductor then the correct mathematical relation at the constant temperature for Ohm's law out of the following is

1. $V = \frac{I}{R}$
2. $R = \frac{V}{I}$
3. $V = \frac{R}{I}$
4. $R = \frac{I}{V}$

Q. 4. If a charge of 60 coulombs passes in a conductor in 2 minutes through its cross sectional area then current in the conductor is

1. 0.5 amperes
2. 120 amperes
3. 30 amperes
4. 2 amperes

Q. 5. Time period of a oscillating body is 0.025 seconds. The number of oscillations it will perform in one-tenth of a second is

1. 50
2. 5
3. 4
4. 40

Q. 6. Two objects repel each other. This repulsion may be due to

1. Gravitational force only
2. Magnetic force only
3. Electrostatic force only
4. Either electrostatic force or magnetic force

Q. 7. If a ray of light is incident at an angle of 90° with the surface of a transparent medium then in it will _____

1. Bend inward
2. Bend outward
3. Not bend
4. reflect back

Q. 8. Spring balance is used to measure

1. pressure
2. mass
3. speed
4. force

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Q. 9. Constellations appear to move in the sky from

1. east to west
2. west to east
3. north to south
4. south to north

Q. 10. The ratio of speed of light in glass to the speed of light in vacuum is

1. 1
2. > 1
3. < 1
4. 0

Q. 11. The speed of the sound in gas is independent of

1. temperature
2. humidity
3. density
4. pressure

Q. 12. The sound in the audible range is called _____

1. sonic
2. ultrasonic
3. supersonic
4. subsonic

Q. 13. Which of the following pairs of substances undergo displacement reaction when react with each other?

1. Zinc sulphate solution and iron nail.
2. Iron sulphate solution and copper turnings.
3. Zinc sulphate solution and copper turnings.
4. Copper sulphate solution and zinc.

Q. 14. The solution of ash of magnesium ribbon is

1. acidic
2. neutral
3. basic
4. All of these

Q. 15. Coal is produced in the industry to get

1. Coke
2. Coal tar
3. Coal gas
4. All of these

Q. 16. The substance which have very low ignition temperature will

1. catch fire after some time
2. catch fire easily
3. will not catch fire
4. none of these

Q. 17. To extinguish a flame, which of these methods can be used?

1. Reduce temperature below the ignition temperature
2. remove combustible substances
3. cut off air supply
4. any one of these

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Q. 18. Choose the correct statement from the following.

1. It is difficult to transport natural gas through pipes
2. The disadvantage of compressed natural gas is that it cannot be used directly for burning in homes.
3. Natural gas is stored under high pressure as compressed natural gas
4. Natural gas cannot be used for power generation.

Q. 19. Which of the following groups contain only synthetic fibres?

1. Nylon, Terylene, Wool
2. Cotton, Polycot, Rayon
3. PVC, Polythene, Bakelite
4. Acrylic, Silk, Wool

Q. 20. Which of the following statements is/are correct?

1. Most synthetic fibres are obtained from coal, petroleum and natural gas.
2. Acrylic fibre closely resembles wool.
3. Most synthetic fibres have very high moisture absorbing capacity.
4. Polymer is not suitable in making dress material.

Q. 21. The only naturally occurring polymer among the following is .....

1.Celluose
2. Terylene
3. Polythene
4. Nylon

Q. 22. The only thermoplastic among the given below is.....

1. PVC
2. Teflon
3. Bakelite
4. Melamine

Q. 23.The metal which is very soft and can be cut with knife is .....

1. Tin
2. Sodium
3. Silver
4. Potassium

Q. 24. Organic manure has following advantages except.

1. Enhances water holding capacity.
2. Makes the soil porous.
3. Increases nutrients in soil.
4. Decreases soil microbes.

Q. 25. Dengue is spread by bite of'

1. Culex mosquito.
2. Aedes mosquito.
3. Anopheles mosquito
4. All a, b, c.

Q. 26. Species of plants and animals exclusively found in an area are called as

1. Extinct.
2. Endangered.
3. Endemic.
4. Pandemic.

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Q. 27. Which among the following is a parasitic plant

1. Pitcher plant.
2. Cucuta.
3. Acacia.
4. Mimosa.

Q. 28. Spindle shaped cells in the human body are found in.

1. Skeletal muscles.
2. Smooth muscles
3. Heart muscles.
4. Striated muscles.

Q. 29. Which among the following are called as cutting, biting teeth.

1. Incisors.
2. Canine.
3. Premolars.
4. Molars.

Q. 30. Asexual method of reproduction observed in hydra is .

1. Fragmentation.
2. Binary fission.
3. Multiple fission.
4. Budding.

Q. 31. Hormone estrogen is produced by.

1. Pituitary.
2. Ovary.
3. Uterus.
4. Oviduct.

Q. 32. Spiracles are respiratory organs observed in.

1. Frog.
2. Bird.
3. Insect.
4. Earthworm.

Q. 33. Transformation of a frog larva into an adult is called.

1. Embryogenesis.
2. Oogenesis.
3. Metagenesis.
4. Metamorphosis,

Q. 34. Secondary sexual characteristics are observed in an individual at.

1. Birth.
2. Puberty.
3. Fertilization.
4. Gestation.

Q. 35. Vascular tissues in plants are.

1. Xylem and lenticles.
2. Xylem and phloem.
3. Xylem , phloem , Lenticels.
4. Xylem, Phloem, Lenticels, Stomata.

Q. 36. The fort of Mardangad in Ponda build by _____.

1. Shivaji
2. Sambhaji
3. Akbar-II
4. Shah Alam

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Q. 37. Who has published a massive three volume work, "*A History of British India*" in 1817?

1. Warren Hastings
2. James Mill
3. Robert Clive
4. Lord Dalhousie

Q. 38. Who was the Governor General of India when 'the Permanent Settlement' was introduced?

1. Lord Cornwallis
2. Lord Wellesley
3. Lord Curzon
4. Lord Lytton

Q. 39. "Virashaiva movement" in South India started under the leadership of _____.

1. Akkamahadevi
2. Basavanna
3. Allama Prabhu
4. Ramanuja

Q. 40. The "*Blue Rebellion*" of 1859 was started in _____.

1. Bihar
2. Assam
3. Bengal
4. Uttar Pradesh

Q. 41. "*Akbar Nama*" was written by _____.

1. Abul Fazl
2. Shah Jahan
3. Amar Singh
4. Khan Jahan Lodi

Q. 42. The son of the deposed Nawab Wajid Ali Shah in Lucknow was proclaimed the new Nawab was __

1. Ahmadullah Shah
2. Birjis Qadr
3. Mir Qasim
4. Mir Jaffar

Q. 43. The Rashtrakuta chief overthrew Chalukya ruler and performed a ritual called hiranya-garbha was _____.

1. Rajarajadeva
2. Rajendra
3. Dantidurga
4. Prithviraja III

Q. 44. "The Spinning jenny" was invented by _____.

1. John Kaye
2. Richard Arkwright
3. Francis Buchanan
4. Charles Weld

Q. 45. The famous social reformer in favour of widow remarriage was _____.

1. Swami Dayanand Saraswati
2. Raja Rammohun Roy
3. Ishwarchandra Vidyasagar
4. Jyotirao Phule

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Q. 46. The "Purna Swaraj" was demanded in Lahore session of the Congress in 1929 under the Presidentship of _____.

1.Mahatma Gandhi
2. Subhash Chandra Bose
3. Saradar Vallabhbhai Patel
4. Jawaharlal Nehru

Q. 47. Potti Sriramulu died after 58 days fast for the demand of separate state of _____.

1. Arunachal Pradesh
2. Hyderabad
3. Haryana
4. Andhra Pradesh

Q. 48. What is the space launching station of Gujrat?

1. Hassan
2. Hyderabad.
3. Ahmedabad.
4. Surat.

Q. 49. A line on a map joining places of equal values is called -----.

1. contours.
2. Isoline.
3. projection.
4. Graphical.

Q. 50. Social forestry and village Development are the -------.

1. Government schemes
2. panchayat Projects.
3. local schemes.
4. villages projects.

Q. 51. The primary waves of earthquake can travel through the -------.

1. Only in the core.
2. form the liquid core.
3. all layers of the interior.
4. layers of crust.

Q. 52. Which movements give rise to formation of extensive plateaus.

1. sea waves.
2. epiorogenic movements.
3. organic movements.
4. earthquakes.

Q. 53. A -------.is the land portion that is most ancient and has never been under the sea.

1. shield.
2. plates.
3. plateau.
4. subcontinent.

Q. 54. Man is a ------ animal.

1. Herbivorous
2. carnivorous
3. omnivorous.
4. producers.

Q. 55. The lack of job availability leads to the problem of -------.

1. Education.
2. unemployment.
3. Health.
4. transport.

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Q. 56. What is considered to be an accident prone occupation?

1. mining.
2. fishery.
3. animal Husbandry.
4. Agriculture.

Q. 57. The country which took the lead in establishing SAARC was --------.

1. Nepal
2. Pakistan
3. India
4. Sri Lanka

Q. 58. The permanent research station established by India in 1989 is ------.

1. Dakshin kashi.
2. Maitri
3. Dakshin nath.
4. sor Rundane.

Q. 59. The------ is a distinctive animal that has a ponch.

1. kangaroo.
2. wallby.
3. Dingo.
4. koala.

Q. 60. who is the Head of the armed forces?

1.The Army chief
2.The navy chief.
3.The President.
4.The Prime minister.

Q. 61. where is the Headquarters of UNO?

1.Hague
2.New York.
3.Washington
4.London.

Q. 62. Which House is called the permanent House?

1.Rajya Sabha.
2.Lok Sabha.
3.Legislative Assembly.
4.Legislative council.

Q. 63. which of the following committees helps the Government in decisions regarding Defence?

1.Political security.
2.National Advisory.
3.Political affairs.
4.National affairs.

Q. 64. which council takes military and economic action against aggressor countries?

1.Trusteeship council.
2.Security council.
3.General Assembly.
4.International court of Justice .

Q. 65. what change is not brought by globalization?

1.boost to democratisation process.
2.integration of economies.
3.joining markets of various countries.
34.control on mutual territory.

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Q. 66. Non alignment movement which emerged after the second world war was supported by newly formed independent countries-----.

1.from Asian continent.
2.from African continent.
3.from America and Indian sub-continent.
4.from Asian and African countries.

Q. 67. which country is trying to secure a permanent seat in the UN security council?

1.France.
2.India.
3.Russia.
4.England.

Q. 68. The first UN programme on environment was finalised in-----.

1.Earth summit.
2.Stockholm conference.
3.Montreal conference.
4. Social conference.

Q. 69. The Bombay High court does not have a bench at-----.

1.Aurangabad.
2.Pune.
3.Nagpur.
4.Panaji.

Q. 70. Which organ does not have its headquarters in New York?

1.General Assembly.
2. Security council.
3. International court of justice.
4. Secretariat.

Q. 71. If the area of a rectangle is $x^2 - 5x + 6$ then its longest side is

1. $x - 3$
2. $x - 2$
3. $x + 3$
4. $x + 2$

Q. 72. What is the difference of additive inverse of $3\frac{2}{5}$ and multiplicative inverse of $-1\frac{2}{3}$

1. $\frac{14}{5}$
2. $-\frac{14}{5}$
3. $-\frac{7}{15}$
4. $\frac{7}{15}$

Q. 73. Two circles with diameters 13cm and 16cm touch each other internally. The distance between their centres is

1. 3 cm
2. 29 m
3. 1.5 cm
4. 14.5 cm

Q. 74. If $xy = b$ and $\frac{1}{x^2} + \frac{1}{y^2} = a$ then $(x + y)^2$ is

1. $(a + 2b)^2$
2. $a^2 + b^2$
3. $b(ab + 2)$
4. $\frac{1}{a} + 2b$

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Q. 75. The sum of three numbers is 98. If the ratio of first to the second is 2:3 and second to the third is 5:8 then the second number is

1. 15
2. 20
3. 30
4. 32

Q. 76. If each side of a cube is increased by 50% then the percentage increased in the surface area of the cube is

1. 50%
2. 125%
3. 150%
4. 300%

Q. 77. The dimensions of a rectangular cardboard are $8cm \times 4cm$.Two concentric circular discs one of radius 1 cm and another having radius equal to the half of the shortest side of a rectangle are cut off. The area of the remaining portion of the card board is

1. 19.44 cm^2
2. 16.3cm^2
3. 44.56cm^2
4. 47.7cm^2

Q. 78. If $2^{x-1} + 2^{x+1} = 320$ then the value of $2x - 5$ is

1. 7
2. 5
3. 9
4. 11

Q. 79. The playground has a shape of trapezium. The parallel sides of a playground are 40 m and 20 m. If its non-parallel sides are both equal, each being 26 m, then the area of the playground is

1. 540 m^2
2. 600 m^2
3. 364 m^2
4. 720 m^2

Q. 80. A certain sum amounts to ₹1008 in 2 years and ₹1112 in 3 years, then the rate of interest is

1. 10 % pa
2. 13% pa
3. 16.5% pa
4. 8.5 % pa

Q. 81. A rectangular box is open at the top. The number of pairs of parallel planes of such box is

1. 1
2. 2
3. 3
4. 4

Q. 82. The number of edges of an hexagonal prism are

1. 12
2. 8
3. 18
4. 2

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Q. 83. Ten years ago Aryan's mother was four times older than her son. After ten years Aryan's mother will be twice old as her son then. Aryan's present age is

1. 10 years
2. 20 years
3. 30 years
4. 5 years

Q. 84. The length of the longest rod that can be placed in a room 30m long,24m broad and 18m high is

1. $30\sqrt{2}$ m
2. $36\sqrt{10}$ m
3. $6\sqrt{2}$ m
4. 60 m

Q. 85. A man cycles at the rate of 15.6km/h. In 2 minutes he will cover

1. 31.2 metres
2. 520 metres
3. 62.4 metres
4. 260 metres

Q. 86. Point P is at a distance of 2 units to the right of the Y-axis and 3 units to the right of the X-axis. The coordinates of the point P are

1. (-3,2)
2. (-2,3)
3. (2,-3)
4. (3,-2)

Q. 87. Vanshita can do a job in 6 days. Vanshita and Anushka can do the same job together in 2 days. How many days Anushaka will take to do the same job alone?

1. 3 days
2. 4 days
3. 6 days
4. 2 days

Q. 88. A class has 20 boys and 30 girls. The average age of boys is 11 years and that of girls is 12 years. The average age of whole class is

1. 12 years
2. 10 years
3. 11.2 years
4. 11.6 years

Q. 89. In ΔABC a point D is lies on side AC such that$AB = AD = BD = DC$. Then $\angle ABC$ is

1. Acute angle
2. Obtuse angle
3. straight angle
4. Right angle

Q. 90. The natural numbers m,m+2, and m+4 are all prime if cube of m+4 is equal to

(1) 1. 3375
(2) 2. 729
(3) 3. 9261
(4) 4. 343

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NATIONAL MEANS CUM MERIT SCHOLARSHIP SEARCH EXAM (NMMSSE) 2021-22

SCHOLASTIC APTITUDE TEST (SAT) Std.VIII

ANSWER KEY

D.O.E. 30/04/2022

Q.	A	Q	A	Q	A	Q	A	Q	A
1	1	21	1	41	1	61	2	81	2
2	4	22	1	42	2	62	1	82	3
3	2	23	2	43	3	63	2	83	2
4	1	24	4	44	1	64	2	84	1
5	3	25	2	45	3	65	4	85	2
6	4	26	3	46	4	66	4	86	3
7	3	27	2	47	4	67	2	87	1
8	4	28	2	48	3	68	1	88	4
9	1	29	1	49	2	69	2	89	4
10	3	30	4	50	1	70	3	90	4
11	4	31	2	51	3	71	2		
12	1	32	3	52	2	72	1		
13	4	33	4	53	1	73	3		
14	3	34	2	54	3	74	3		
15	4	35	2	55	2	75	3		
16	2	36	2	56	1	76	2		
17	4	37	2	57	3	77	1		
18	2	38	1	58	2	78	3		
19	3	39	2	59	1	79	4		
20	4	40	3	60	3	80	2		



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