



# YADURISE

## Yaduvanshi Renowned Intellectual Search Exam

Class - 6th

Reg. No./ Student ID ..... Name.....

### PART - I SCIENCE

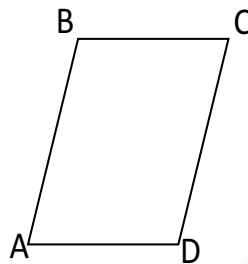
- Which of the following pairs will not exhibit diffusion?  
(A) Hydrogen, oxygen (B) Oxygen, water (C) Salt, salt (D) Sugar, water
- Which of the following represents the correct order of evaporation.  
(A) alcohol, water, petrol, kerosene oil (B) petrol, alcohol, water, kerosene oil  
(C) water, alcohol, kerosene oil, petrol (D) kerosene oil, petrol, water, alcohol
- Which of the following compounds will undergo sublimation.  
(A) Common salt (B) Camphor (C) Sugar (D) Sand
- During summer water kept in an earthen pot becomes cool because of the phenomenon of  
(A) diffusion (B) transpiration (C) osmosis (D) evaporation
- The boiling point of water at 100°C at  
(A) Mumbai (B) Delhi (C) Shimla (D) Same everywhere
- Melting is  
(A) an endothermic process (B) an exothermic process  
(C) both a & b (D) none
- At boiling point  
(A) A liquid changes into vapours  
(B) liquid and vapours exist  
(C) vapour pressure of the liquid is equal to the atmospheric pressure  
(D) All statements are correct
- Which of the following is not a chemical change  
(A) Rusting of iron (B) Photosynthesis (C) Dyeing of cloth (D) Breaking a glass beaker
- Which of the following is not a physical change:  
(A) Dehydrating milk to get milk powder (B) Sublimation of iodine  
(C) Dissolving sugar in tea (D) Burning of LPG
- Which of the following is a pure substance  
(A) milk (B) sea water (C) soil (D) 24 carat gold
- A full length image of a distant tall building can definitely be seen by using  
(A) a concave mirror (B) a convex mirror (C) a plane mirror (D) both concave as well as plane mirror
- The laws of reflection hold good for  
(A) plane mirror only (B) concave mirror only  
(C) convex mirror only (D) all mirrors irrespective of their shape
- Which one is a strong electrolyte  
(A) Distilled water (B) Tap water (C) Sea water (D) Alcohol
- What is the SI unit of Power:  
(A) Ampere (B) Volt (C) Watt (D) Ohm
- What should be the core of an electromagnet  
(A) soft iron (B) hard iron (C) rusted iron (D) none of above
- In all the electrical appliances, the switches are put in the  
(A) live wire (B) earth wire (C) neutral wire (D) all of above

17. What is that instrument which can detect the presence of electric current in a circuit  
(A) Galvanometer (B) Motor (C) Generator (D) None of above
18. Which device produces the electric current?  
(A) Generator (B) Dynamo (C) Motor (D) Both a & b
19. An object becomes invisible when it undergoes \_\_\_\_\_ reflection.  
(A) regular (B) irregular (C) diffused (D) normal
20. The focus of a concave mirror is  
(A) real (B) virtual (C) undefined (D) at the pole
21. An image formed by a convex mirror is always  
(A) virtual, erect and diminished (B) virtual, real and magnified  
(C) real, inverted and diminished (D) real, erect and magnified
22. What is the angle between the incident and reflected rays when a ray of light is incident normally on a plane mirror  
(A)  $90^\circ$  (B)  $45^\circ$  (C)  $180^\circ$  (D) 0
23. Parallel rays of light entering a convex lens always converge at  
(A) centre of curvature (B) the principle focus (C) optical centre (D) the focal plane
24. When a graph of one quantity versus another results in a straight line, the quantities are  
(A) both constant (B) equal (C) directly proportional (D) inversely proportional
25. Which of the following is not a magnetic material?  
(A) Gold (B) Nickel (C) Iron (D) Cobalt
26. The magnetic strength of a magnet  
(A) Is uniform throughout the body of the magnet  
(B) Is concentrated at one point called the poles of the magnet  
(C) Is concentrated in two regions called the poles of the magnet  
(D) Is concentrated in the center of the magnet
27. Iron rim is made slightly smaller than the wooden wheel. The rim is usually heated before fixing into the wooden wheel, because on heating the iron rim  
(A) Expands & fits onto the wooden wheel  
(B) Contracts & fits onto the wooden wheel  
(C) No change in the size takes place  
(D) Expands first, then on cooling contracts & fits onto the wooden wheel
28. Which statement out of the following is incorrect?  
(A) Use of charkha was popularized by Mahatma Gandhi  
(B) In India, jute is mainly grown in Punjab & Kerala  
(C) To make fabrics are first converted into yarns  
(D) Sufi Saint Kabir was a weaver
29. Baking soda makes a cake fluffy because of the \_\_\_\_\_ present in it  
(A) Hydrogen gas (B) Carbon dioxide gas  
(C) Carbon monoxide gas (D) None of these
30. The temperature at which the density of water is maximum  
(A)  $-2^\circ\text{C}$  (B)  $2^\circ\text{C}$  (C)  $4^\circ\text{C}$  (D)  $-4^\circ\text{C}$
31. Jute fibre is obtained from the \_\_\_\_\_ of the jute plant  
(A) Stem (B) Leaves (C) Flower (D) Fruit
32. One picometer is equal to  
(A)  $10^{-6}\text{m}$  (B)  $10^{-9}\text{m}$  (C)  $10^{-12}\text{m}$  (D)  $10^{-15}\text{m}$
33. The size (atomic radius) of hydrogen is  
(A) 51 pm (B) 52 pm (C) 53 pm (D) 54 pm

34. Which of the following can be considered as fast change?  
 (A) Growth of child (B) Bursting of crackers (C) Cooking of food (D) Germination of seed
35. Carbon rod in a dry cell is called  
 (A) Positive electrode (B) Negative electrode (C) Neutral (D) None of these

## PART - II MATHEMATICS

36. A number when divided by 156 gives 29 as remainder. If the same number is divided by 13, what will be the remainder?  
 (A) 4 (B) 9 (C) 6 (D) 3
37. The predecessor of the smallest five – digit number is:  
 (A) 99999 (B) 80799 (C) 9999 (D) 10001
38. Three numbers are in ratio 1 : 2 : 3 and HCF is 12. The number are  
 (A) 12, 24, 36 (B) 11, 22, 33 (C) 12, 24, 32 (D) 5, 10, 15
39. The sum of first five prime numbers is  
 (A) 11 (B) 18 (C) 26 (D) 28
40. Which one of following is the largest prime number of three digits?  
 (A) 997 (B) 999 (C) 991 (D) 993
41. Four bells begin to toll together at intervals of 6, 7, 8 and 9 seconds. What is the number of times that they will toll together in 2 hours?  
 (A) 12 (B) 13 (C) 11 (D) None of these
42. The HCF of two numbers is 145 and their LCM is 2175. If one of the numbers is 725, find the others.  
 (A) 725 (B) 435 (C) 335 (D) None of these
43. If the radius of a circle is increase by five times, then its diameter will be:  
 (A) 5 times (B) 10 times (C) 15 times (D) None of these
44. The sum of a two digit number and its reversing number is always a multiple of  
 (A) 10 (B) 11 (C) 12 (D) 13
45. Which of the following is the pair of adjacent angles in the given figure?



- (A)  $\angle A, \angle D$  (B)  $\angle B, \angle D$  (C)  $\angle A, \angle C$  (D) None of these
46. Find the value of:  $|-3| + 2|-5| + |2| + |1|$   
 (A) - 5 (B) 16 (C) 5 (D) None of these
47. If the fractions  $\frac{3}{5}, \frac{2}{11}, \frac{4}{7}, \frac{1}{3}, \frac{5}{6}$  and  $\frac{3}{8}$  are arranged in ascending order, which fraction will be at the 3rd place?  
 (A)  $\frac{1}{3}$  (B)  $\frac{3}{5}$  (C)  $\frac{2}{11}$  (D)  $\frac{3}{8}$
48. The difference of sum of even numbers and sum of odd numbers between 10 and 20 is  
 (A) 3 (B) 6 (C) 15 (D) 4
49. The mean weight of 10 girls in a class is 43 kg. Another girl whose weight is 65 kg joins group. Calculate the mean weight of 11 girls.

- (A) 44 (B) 45 (C) 46 (D) 43
50. Multiplication and additive identity are  
(A) (1,0) (B) (1,1) (C) (0,0) (D) None of these
51. The number of integers between  $-2$  and  $2$  is  
(A) 3 (B) 4 (C) 5 (D) 2
52. The difference between the highest and the lowest observations in a data is its  
(A) frequency (B) width (C) range (D) mode
53. Two consecutive odd prime numbers are called  
(A) twin primes (B) prime triplet (C) co-prime (D) prime numbers
54. Number of lines of symmetry a circle does have  
(A) 2 (B) 3 (C) 4 (D) infinite many
55. Which of the following has 5 lines of symmetry  
(A) a circle (B) a regular pentagon (C) an irregular pentagon (D) a quadrilateral
56. A wire in the shape of an equilateral triangle of side  $12\text{cm}$  is reshaped to form a square. The side of square is  
(A)  $18\text{cm}$  (B)  $12\text{cm}$  (C)  $16\text{cm}$  (D)  $9\text{cm}$
57. A solid that has only one vertex is  
(A) pyramid (B) cube (C) cone (D) cylinder
58. Find the average of first five prime numbers  
(A) 5 (B) 6 (C) 7.6 (D) 5.6
59. In roman numeral we cannot express  
(A) 11 (B) 100 (C) 0 (D) 1 lakh
60. The total number of prime numbers upto 100 is  
(A) 3 (B) 15 (C) 24 (D) 25

### PART - III

#### I.Q. (INTELLIGENCE QUOTIENT)

**Note:- Choose any one of I.Q. (INTELLIGENCE QUOTIENT) or G.A. (GENERAL AWARENESS) in Part - III.**

#### Directions: Number Series (61-62)

61. 1, 1, 4, 8, 9, 27, 16, ?  
(A) 32 (B) 64 (C) 81 (D) 256
62. 3, 10, 29, 66, 127, ?  
(A) 164 (B) 187 (C) 216 (D) 218
63. If  $Z = 52$ , and  $ACT = 48$  then  $BAT = ?$   
(A) 39 (B) 41 (C) 46 (D) 44
64. Find Odd One Out  
(A) Tiger (B) Lion (C) Cow (D) Leopard
65. Pointing to a man in a photograph a woman says, "He is the father of my only daughter-in-law's father-in-law."  
How is man related to woman?  
(A) Father (B) Brother (C) Husband (D) Father-in-law
66. 512, 256, 128, ?, 32, 16, 8, 4, 2, 1  
(A) 66 (B) 64 (C) 84 (D) 59
67. In a certain code SIGHT is written as FVTUG. How is REVEAL written in the same language.  
(A) YNRIRE (B) DQHQN X (C) FSJSOZ (D) ERIRNY
68.  $AG : IO : EK : ?$   
(A) LR (B) MS (C) PV (D) SY
69.  $FILM : DIRECTOR :: BOOK : ?$   
(A) AUTHER (B) WRITER (C) PUBLISHER (D) EDITOR

70. Find odd one  
 (A) 43 (B) 53 (C) 63 (D) 73
71. If the code of RAM is \*△□ and the code of MAN is □△\$ then what is the code of MAR?  
 (A) □\$△ (B) □△\* (C) \$△□ (D) \$△\*
72. a-ba-b-b-a-b  
 (A) aabba (B) bbabb (C) abaab (D) abbab
73. 2.11, 2.22, 2.33, 2.44, ?, 2.66, 2.77, 2.88  
 (A) 2.56 (B) 2.58 (C) 2.55 (D) 3.15
74. C,F,J,O,?  
 (A) T (B) U (C) V (D) W
75. AC1,DF4,GI9,JL16,?  
 (A) MN25 (B) MO25 (C) NP16 (D) OP25
76. PULP : PAPER :: HEMP : ?  
 (A) COTTON (B) ROPE (C) BASKET (D) YARN
77. If in a certain code language 'BRIGHT' is written as 'CSJHIU', then how will 'TUNTER' be written in that language?  
 (A) UVOUSF (B) UOVFUS (C) UVOFUS (D) UVOUFS
78. If in a certain code language 'NAME' is written as 'MZLD', then how will 'PEON' be coded in that language?  
 (A) ODNM (B) ODMN (C) ONDM (D) OMND
79. Mahesh is son of Nancy. Rajeev is brother of Nancy. Neha is daughter of Neelam. Neha is sister of Rajeev. How is Mahesh related to Neelam?  
 (A) Grandfather (B) Grandson (C) Brother (D) Son
80. A is the father of C and D is the son of B. E is brother of A. If C is sister of D, how is B related to E?  
 (A) Sister-in-law (B) Mother (C) Daughter (D) Husband

### G.A. (GENERAL AWARENESS)

61. The Reserve Bank of India will soon issue new Rs 500 denomination bank notes which has motif of which monument on the reverse of the note?  
 (A) Hampi with chariot (B) Red Fort (C) Ellora Caves (D) Rani ki vav
62. On October 21, Prime Minister Narendra Modi had hoisted the National Flag at \_\_\_\_\_ and unveiled the plaque to commemorate in the memory of 75th Anniversary of formation of Azad Hind provisional government.  
 (A) Taj Mahal (B) Charminar (C) India Gate (D) Red Fort
63. Kartarpur corridor build between by which countries in the memory of Guru Nanak Dev  
 (A) India and Bangladesh (B) India and Nepal (C) India and Pakistan (D) India and Afghanistan
64. What is the name of Mughalsarai junction ?  
 (A) Pandit Bhagwat Dayal Sharma (B) Pandit Ram bilas  
 (C) Pandit Deen Dayal Upadhyaya (D) None of these
65. Which city was the venue of Khelo India Youth Games 2019 ?  
 (A) Delhi (B) Bhopal (C) Chennai (D) Pune
66. Famous personality Kader Khan passed away he belongs to which profession?  
 (A) Politician (B) Actor (C) Poet (D) Musician
67. Bogibeel Bridge, India's longest railroad bridge inaugurated is in which state  
 (A) Mizoram (B) Arunachal Pradesh (C) Meghalaya (D) Assam
68. Which state government has put a ban on the purchase new vehicles and air conditioners (ACs) by the government department?  
 (A) Gujarat (B) Meghalaya (C) Andhra Pradesh (D) None of these
69. Which is the Highest Civilian award of the Republic India ?  
 (A) Param Veer Chakra (B) Padam Vibhushan (C) Mahavir Chakra (D) Bharat Ratna
70. Punjab Govt. has declared endangered \_\_\_\_\_ river dolphins as the state's aquatic animal.

- (A) Ganga (B) Yamuna (C) Indus (D) Sutlej
71. Where is India's first underground Nuclear explosion ?  
 (A) In kota (B) In Pokhran (C) In Narora (D) None of these
72. Vallam Kali is a traditional boat race festival of which of the following states ?  
 (A) Tamil Nadu (B) Kerala (C) Assam (D) Goa
73. Dutee Chand recently was in news, she is associated with which of the following sports ?  
 (A) Table – Tennis (B) Tennis (C) Athlete (D) Badminton
74. The Buddh International circuit is in :-  
 (A) Gandhinagar (B) Greater Noida (C) Guwahati (D) New Delhi
75. According to ISRO, Chandrayaan -2 Moon mission will explore which area of the moon ?  
 (A) Moon's North pole (B) Moon's South pole  
 (C) Moon's North –west part (D) Unexplored part of the moon
76. Who has been named as India's first anti-corruption ombudsman?  
 (A) Rachit Seth (B) P C Ghose (C) Aradhana Rathore (D) Ashwini M Sripad
77. Maitri Bridge is build over which of the following rivers?  
 (A) Jhelum (B) Ravi (C) Sutlej (D) Indus
78. Which railway station has become the India's first-ever railway station to get green ISO certification?  
 (A) Guwahati (B) Hyderabad (C) Delhi (D) Bhopal
79. Who is the current Chairperson of the National Green Tribunal (NGT)?  
 (A) Piyush Dattatraya (B) Adarsh Kumar Goel (C) Madan B Lokur (D) Salvi Swatanter Kumar
80. UNESCO world Heritage site 'Elephanta Caves' is located at  
 (A) Mumbai (B) Karnataka (C) U.P. (D) Gujarat

