



# YADURISE

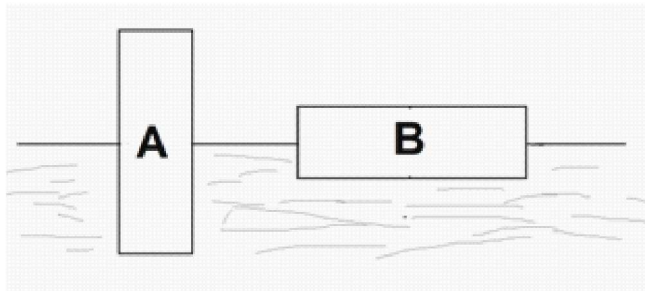
## Yaduvanshi Renowned Intellectual Search Exam

Class - 8th

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

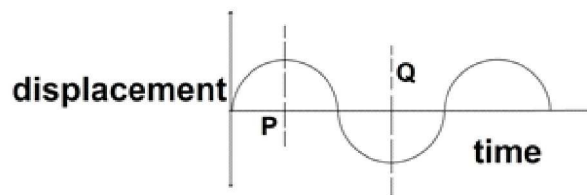
### PART - I SCIENCE

1. A body moving with a constant speed on a horizontal surface does not have:  
(A) Velocity (B) Momentum (C) Kinetic energy (D) Acceleration
2. A vibrating body should oscillate minimum how many times per second to make an audible sound for humans  
(A) 10 times (B) 20 times (C) 30 times (D) 40 times
3. How does the proper inflation of tyres save fuel  
(A) Normal reaction decreases (B) Sliding contact with the road increases  
(C) Normal reaction increases (D) Sliding contact with the road decreases
4. A ball is dropped from a spacecraft revolving around the earth at a height of 120km. What will happen to the ball?  
(A) It will continue to move with the same speed along the original orbit of spacecraft  
(B) It will move with the same speed, tangentially to the spacecraft  
(C) It will fall down to the earth gradually  
(D) It will go very far in the space
5. Increase in pressure at one point of the enclosed liquid in equilibrium or rest is transmitted equally to all other points of liquid illustrates:  
(A) Buoyant force (B) Pascal's law (C) Gravitational law (D) Electrostatic law
6. Two identical block of ice float in water as shown, then:



- (A) Block A displaces a greater volume of water since the pressure acts on a smaller bottom area.  
(B) Block B displaces a greater volume of water since the pressure is less on the bottom.  
(C) The two blocks displace equal volumes of water since they have the same weight.  
(D) Block A displaces a greater volume of water since its submerged end is lower in the water.
7. Aerofils are so designed that the speed of air  
(A) on top side is more than on lower side (B) on top side is less than on lower side  
(C) is same on both sides (D) in turbulent
8. A man is sitting in a boat, which is floating on a pond. If the man drinks some water from the pond, the level of water in pond.  
(A) decreases (B) increases  
(C) remains unchanged (D) may increase or decrease depending on the weight of the man
9. For propagation of sound waves through a medium the medium should possess:

- (A) inertia                      (B) elasticity                      (C) both (A) and (B)                      (D) rigidity
10. Which of the following statement is false:  
 (A) The change in air temperature have no effect on the speed of sound  
 (B) The change in air pressure have no effect on the speed of sound  
 (C) The speed of sound in water is higher than in air  
 (D) Two persons on moon cannot hear each other
11. When a sound wave goes from one medium to another, the quantity that remains unchanged is  
 (A) speed                      (B) amplitude                      (C) frequency                      (D) wavelength
12. Of the following, the one which emits sound of higher pitch is  
 (A) mosquito                      (B) man                      (C) lion                      (D) woman
13. In the diagram below, the interval PQ represents time:



- (A) wavelength/2                      (B) wavelength                      (C) 2×amplitude                      (D) period/2
14. The unit of power of lens is  
 (A) Metre                      (B) Candela                      (C) Dioptre                      (D) Heartz
15. Which of these is plated on the iron to prevent it from chemically reacting with food.  
 (A) Gold                      (B) Silver                      (C) Tin                      (D) Chromium
16. Which one of the following is bad conductor of electricity  
 (A) Distilled water                      (B) Alcohol                      (C) Salt water                      (D) Tap water
17. For a spherical mirror, \_\_\_\_\_ is true  
 (A)  $f = 2R$                       (B)  $fR = 2$                       (C)  $fR = 1/2$                       (D)  $R = 2f$
18. For a given incident ray, a plane mirror is turned through  $15^\circ$ . The reflected ray would turn through.  
 (A)  $15^\circ$                       (B)  $30^\circ$                       (C)  $60^\circ$                       (D)  $90^\circ$
19. To obtain a real and inverted image of an object we need  
 (A) a concave mirror or a concave lens                      (B) a convex mirror or a convex lens  
 (C) a concave mirror or a convex lens                      (D) a convex mirror or a concave lens
20. When an object is held between  $F_1$  and optical centre O of a convex lens. The image formed is  
 (A) at  $F_1$                       (B) at  $F_2$                       (C) beyond  $F_1$                       (D) between O and  $F_1$
21. Consider the list of terms given below:  
 (i) Tsunami                      (ii) Landslide                      (iii) Floods                      (iv) Lightning  
 Earthquakes can cause  
 (A) i, ii & iii                      (B) ii & iv                      (C) ii, iii & iv                      (D) iii & iv
22. When charges move, they constitute  
 (A) Magnetic effect                      (B) Electric current                      (C) Heating effect                      (D) All the above
23. In thunderstorm, the charges accumulate near the upper edges of clouds are  
 (A) negatively charged                      (B) positively charged                      (C) neutral                      (D) both a & b
24. The charge acquired by body due to  
 (A) loss of electron                      (B) gain of electron                      (C) gain or loss of proton                      (D) both a and b
25. Which one of the following metals does not react with cold as well as hot water.  
 (A) Sodium                      (B) Calcium                      (C) Iron                      (D) Magnesium
26. Silver articles become black on prolonged exposure to air. This is due to formation of  
 (A)  $Ag_3N$                       (B)  $Ag_2S$                       (C)  $Ag_2O$                       (D)  $Ag_2SO_3$

27. Copper forms a greenish layer on its surface due to formation of  
 (A)  $\text{CuSO}_4$  (B)  $\text{CuCO}_3$  (C)  $\text{Cu}(\text{NO}_3)_2$  (D)  $\text{CuCO}_3 \cdot \text{Cu}(\text{OH})_2$
28. Which of the following contains nonmetal  
 (A) Brass (B) Germal Silver (C) Solder (D) Steel
29. Which one of the following reactions will not take place  
 (A)  $\text{Cu} + \text{AgNO}_3 \longrightarrow$  (B)  $\text{Fe} + \text{CuSO}_4 \longrightarrow$   
 (C)  $\text{Zn} + \text{FeSO}_4 \longrightarrow$  (D)  $\text{Fe} + \text{ZnSO}_4 \longrightarrow$
30. Which element(s) show allotropy  
 (A) carbon (B) sulphur (C) phosphorus (D) all the above
31. Which one is not a source of carbohydrates  
 (A) Gram (B) Rice (C) Milletes (D) Sourghum
32. Which one of the following nutrients is not available in fertilizers.  
 (A) Nitrogen (B) Phosphorus (C) Iron (D) Potasium
33. Which one of the following fishes is a surface feeder.  
 (A) Rohus (B) Mrigals (C) Common carps (D) Catlas
34. Find out the correct statement about manure:  
 (i) It contains large quantities of organic matter and small quantities of nutrients  
 (ii) It increases the water holding capacity of sandy soil  
 (iii) It helps in drainage out excess of water from clayey soil  
 (iv) Its excessive use pollutes environment because it is made of animal excretory waste.  
 (A) i and iii (B) i and ii (C) ii and iii (D) iii and iv
35. Out of copper, silver, iron and zinc, the metal that can displace all others from their salt solutions is  
 (A) Copper (B) Silver (C) Iron (D) Zinc

## PART - II MATHEMATICS

36. If the number 2345p 60q is exactly divisible by 3 and 5 then maximum value of p + q is  
 (A) 12 (B) 13 (C) 14 (D) 15
37. If  $x + \frac{1}{x} = 2$  than  $x^{2013} - \frac{1}{x^{2012}} =$  \_\_\_\_\_  
 (A) 2 (B) 1 (C) 0 (D) -1
38.  $x = \frac{\sqrt{3} - \sqrt{2}}{\sqrt{3} + \sqrt{2}}$  and  $y = \frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}}$  find  $x^2 + y^2 + xy = ?$   
 (A) 99 (B) 100 (C) 199 (D) 299
39. One of the factor  $x^4 + 4$ .  
 (A)  $x^2 - 2x + 1$  (B)  $x^2 + 2x + 2$  (C)  $x^2 - 2x + 4$  (D)  $x^2 - x + 4$
40. If x and y are whole number such that  $y^x = 19683$  and  $y > x$  and  $1 < x < y$  then  $\sqrt[3]{y}$  is \_\_\_\_\_  
 (A) 13 (B) 17 (C) 3 (D) 9
41. If  $a^{bc} = 6561$  then find the least possible value of product of a, b, c. Where a,b,c are integers, (not necessary distinct)  
 (A) 24 (B) 36 (C) 162 (D) None of these
42. Alok wanted to type the first 200 natural numbers. How many times does he have to press the key?  
 (A) 400 (B) 365 (C) 492 (D) 489
43. If  $2^x = 3^y = 6^z$  then  $\frac{1}{x} + \frac{1}{y} + \frac{1}{z} =$  \_\_\_\_\_



**PART - III**  
**I.Q. (INTELLIGENCE QUOTIENT)**

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

**Directions (61-64): In a certain code language if**

“JOIN YADUVANSHI NARNAUL BRANCH” is coded as H # 5, I # 9, L @ 6, N # 3

“BEST FACULTY TEAM” is coded as Y@6, M # 3, T # 3

“ULTIMATE PERSONAL CARE” is coded as L # 7, E # 3, E # 7

“BUILD YOUR FUTURE” is coded as E # 5, D @ 4, R # 3

61. Then what is code for “CHAMPION”?  
(A) N # 7                      (B) N # 8                      (C) N @ 7                      (D) N @ 8
62. Then what is code for “YADUVANSHI”?  
(A) H # 5                      (B) N # 3                      (C) L @ 6                      (D) I # 9
63. Then what is code for “NARNAUL”?  
(A) N # 3                      (B) H # 5                      (C) L @ 6                      (D) I # 9
64. Then what is code for “ALWAYS”?  
(A) S # 5                      (B) S # 6                      (C) S @ 5                      (D) S @ 6

**Directions (Questions 65-66): In each of the following questions, find out how many such pairs of letters are there in the given word each of which has as many letters between them in the word as in the English alphabet**

65. NECESSARY  
(A) Nil                      (B) One                      (C) Two                      (D) Three
66. CREATIVE  
(A) One                      (B) Two                      (C) Three                      (D) Four
67. If GLARE is coded as 67810 and MONSOON is coded as 2395339, then how can RANSOM be coded as?  
(A) 183952                      (B) 189352                      (C) 189532                      (D) 198532
68. Find the two letters in the word EXTRA which have as many letters between them in the word as in the alphabet. If these two letters are arranged in alphabetical order, which letter will come second?  
(A) A                      (B) E                      (C) R                      (D) T
69. Some boys are sitting in three rows all facing North such that A is in the middle row. P is just to the right of A but in same row. Q is just behind of P while R is in the North of A. In which direction of R is Q?  
(A) South-East                      (B) South                      (C) South-West                      (D) Data is inadequate
70. The position of how many letters in the word BRAKES remains unchanged when they are arranged in alphabetical order?  
(A) One                      (B) Two                      (C) Three                      (D) More than three

**Directions (71-73) : Study the following arrangement of symbol, letters and numbers to answer the questions given below it:**

$\delta = \beta$  F 2 \* K S 7 5 # \$ P L V 8 @ M U E 6  $\uparrow$  Q G © 9 3 & T Y £

71. How many such letters are there in the arrangement each of which is either immediately preceded by a symbol or immediately followed by a number, but not both?  
(A) Three                      (B) Four                      (C) more than Five                      (D) five
72. How many such consonants are there in the above arrangement each of which is immediately followed by a consonant but not immediately preceded by a symbol?  
(A) Nil                      (B) One                      (C) Two                      (D) Three
73. Which of the following is exactly in the middle of the ninth from the left end and the fifteenth from the right end in the above arrangement?

(A) P (B) U (C) E (D) L

**Directions (74 to 76): In a certain language the letters are coded as follows:**

<b>S</b>	<b>B</b>	<b>C</b>	<b>P</b>	<b>N</b>	<b>E</b>	<b>O</b>	<b>H</b>	<b>R</b>	<b>M</b>
<b>0</b>	<b>9</b>	<b>3</b>	<b>7</b>	<b>1</b>	<b>6</b>	<b>4</b>	<b>8</b>	<b>5</b>	<b>2</b>

Find the code of each word in each of the following questions:

74. NOSER  
(A) 67859 (B) 14065 (C) 14056 (D) 14506
75. HORSE  
(A) 84506 (B) 84505 (C) 85406 (D) 84507
76. HORNS  
(A) 84519 (B) 84517 (C) 84510 (D) 84518
77. Pointing to the woman in the picture, Rajiv said, "Her mother has only one grandchild whose mother is my wife." How is the woman in the picture related to Rajiv?  
(A) Cousin (B) Brother (C) Sister (D) Sister-in-law
78. If REQUEST is written as S2R52TU, then how will ACID be written?  
(A) 1D3E (B) 1D3F (C) DB3G (D) None of these
79. If each of the letters in the English alphabet is assigned odd numerical value beginning A = 1, B = 3 and so on, what will be the total value of the letters of the word INDIAN?  
(A) 86 (B) 88 (C) 89 (D) 96
80. If A = 2, M = 26, Z = 52, then BET = ?  
(A) 44 (B) 54 (C) 64 (D) 72

### G.A. (GENERAL AWARENESS)

61. Plant is a boon for those living in high Altitudes as it has vast Medicinal properties. It works as Sanjeevani for them.  
(A) Rhodiola Rosea (SOLO) (B) Parsley  
(C) Tulsi (holy basil) (D) Aloe vera (ghritkumari)
62. The Reserve Bank of India will soon issue new Rs 20 denomination bank notes which has Motif of which monument on the Reverse of the note?  
(A) Charminar (B) India Gate (C) Raj Ghat (D) Ellora Caves
63. Satyameva Jayate - "Truth alone Triumphs." is a mantra from the Ancient Indian scripture comes from  
(A) Aitareya Upanishad (B) Muktika Upnishad  
(C) Mundaka Upnishad (D) Rigveda
64. The 75 Rs. coin will carry an inscription saying 'First Flag Hoisting Day' in both Devnagari script and English in the memory of hoisting of tricolour by  
(A) Subhash Chandra Bose (B) Bhagat Singh  
(C) Sukhdev (D) Chandra Shekhar Azad
65. Which of the following industries in India is the highest consumer of water in India?  
(A) Textiles (B) Thermal power (C) Engineering (D) Paper & pulp
66. Which of the following mascot for 39<sup>th</sup> National games 2022?  
(A) Royal Bengal Tiger (B) Great Indian Bustard (C) Clouded leopard (D) Cheetah
67. Which Indian Nountaineer has become the world's first female Amputee to scale Antarctica's Highest Peak?  
(A) Geeta Phogat (B) Ginni Rometty (C) Arunima Sinha (D) Sushila Devi
68. Who has been appointed as new Chairman of Railway Board?  
(A) Vinay Sheel Oberoi (B) Vinod Kumar (C) N K Singh (D) None of these
69. India has increased the Tiger number in 2018 Census is  
(A) 2876 (B) 2967 (C) 2984 (D) None of these
70. In which city PM of India celebrated Yoga Day 2019?  
(A) Jaipur (B) Ranchi (C) Gurugram (D) Varanasi

71. Operation Vijay, 1961 is associated with  
 (A) Kargil War (B) Punjab Crisis  
 (C) Capture of Goa, Daman and Diu (D) Assam Turmoil
72. National Girl Child Day is celebrated on 24th January every year. What is the theme of the day for 2019?  
 (A) Girl Child rights in India (B) Empowering Girls for a Brighter Tomorrow  
 (C) Let her live, let her growth (D) Girl child for future
73. The 11<sup>th</sup> BRICS Summit in 2019 will be hosted by  
 (A) Brazil (B) Russia (C) China (D) India
74. World Hindi Day is celebrating every year on 10th January. The day is celebrated, marking the Anniversary of \_\_\_\_\_.  
 (A) First Hindi speech given in UNGA  
 (B) First World Hindi Conference  
 (C) First movement to making Hindi as an official language of UN  
 (D) First pact signed by India and UN in Hindi Language
75. Who among the following won Women's Singles title in Australian Open-2019?  
 (A) Naomi Osaka (B) Petra Kvitova (C) Simona Halep (D) Jennifer Capriatite
76. Who was chosen for the first Sheikh Saud International Prize for Materials?  
 (A) Satish Dhawan (B) K Sivan (C) C N R Rao (D) AS Kiran Kumar
77. Vidarbha has clinched second successive Ranji Title defeating \_\_\_\_\_ in the finals.  
 (A) Rest of India (B) Mumbai (C) Saurashtra (D) Karnataka
78. Which country has decided to include Hindi as the third official language in courts?  
 (A) UAE (B) Iran (C) Saudi Arabia (D) Oman
79. India's first fulldome 3D Digital theatre was inaugurated in which of the following cities?  
 (A) New Delhi (B) Pune (C) Hyderabad (D) Kolkata
80. Which Indian cricketer has been appointed as the new Chairman of the ICC Cricket Committee?  
 (A) Rahul Dravid (B) Anil Kumble (C) Saurav Ganguly (D) VVS Laxman

