

### SCREENING TEST FOR QUIZ – JUNIOR LEVEL (Class 5,6,7)

Time: 60 Minutes

Max. Marks: 60

1. The value of  $\frac{5.7 \times 5.7 - 2.3 \times 2.3}{5.7 \times 5.7 + 2 \times 5.7 \times 2.3 + 2.3 \times 2.3}$  is ( )

- A)  $\frac{15}{52}$                       (B)  $\frac{17}{40}$                       (C)  $\frac{8}{15}$                       (D) None

2. If  $6^{x-y}=36$  and  $3^{x+y}=729$  then  $x^2-y^2=$  ( )

- A) 4                      (B) 12                      (C) 24                      (D) 8

3. Find the area of a square of the sum of the diagonals is 100 cm. ( )

- A) 125 cm                      (B) 5000 cm<sup>2</sup>                      (C) 1250 cm<sup>2</sup>                      (D)  $100\sqrt{20}$  cm<sup>2</sup>

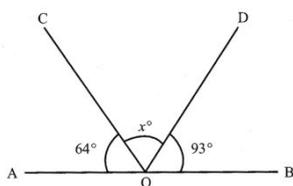
4. Which expression is obtained when  $2x^2-5x+7$  subtracted by  $5x^2-2x+6$ . ( )

- (A)  $3x^2-3x+1$                       (B)  $3x^2+3x-1$                       (C)  $3x^2-3x-1$                       (D) None of these

5. What is the sum of  $5x-2x^2+3$ ,  $3x^2-2x+7$  and  $4x^2-5x-6$ . ( )

- (A)  $5x^2-2x+4$                       (B)  $5x^2+2x-4$                       (C)  $5x^2-2x-4$                       (D) None of these

6. Find the value of x from the figure? ( )



- (A) 230                      (B) 330                      (C) 430                      (D) None of these

7. A certain amount earns simple interest of Rs. 1750 after 7 years. Had the interest been 2% more, how much more interest would it have earned? ( )

- (A) Rs. 35                      (B) Rs. 245                      (C) Rs. 350                      (D) cannot be determined

8. What will be the ratio of simple interest earned by certain amount at the same rate of interest for 6 years and that for 9 years? ( )

- (A) 1:3                      (B) 1:4                      (C) 2:3                      (D) Data inadequate

9. A sum of Rs. 12,500 amounts to Rs. 15,500 in 4 years at the rate of simple interest. What is the rate of interest? ( )

- (A) 3%                      (B) 4%                      (C) 5%                      (D) 6%

10. Which of the following is the correct value of given number expression:  $(2^2 + 4^2 + 6^2 + \dots + 20^2) = ?$  ( )

- (A)  $77 \times 10$                       (B)  $231 \times 5$                       (C)  $2 \times 77 \times 10$                       (D)  $385 \times 385$

11. An automobile financier claims to be lending money at simple interest, but he includes the interest every six months for calculating the principal. If he is charging an interest of 10%, the effective rate of interest becomes: ( )

- (A) 10%                      (B) 10.25%                      (C) 10.5%                      (D) None of these

12. What will be the sum of first forty five counting numbers? ( )  
 (A)  $207 \times 5$  (B)  $207 \times 10$  (C)  $207 \times 3 \times 5$  (D)  $207 \times 2$
13. What will be the sum of even numbers between 1 and 21? ( )  
 (A) 110 (B) 120 (C) 230 (D) 240
14. What is the value obtained if we multiply 2056 and 987? ( )  
 (A) 1936372 (B) 2029272 (C) 1896172 (D) 2022972
15. If two-third of three-fourth of a number is 30, then three-fifth of that number is: ( )  
 (A) 25 (B) 35 (C) 36 (D)  $\frac{1}{30}$
16. What is the value of third integer if 3 times the first of 3 odd consecutive integers is three more than twice the third? ( )  
 (A)  $3^3$  (B)  $3^2$  (C)  $3 \times 5$  (D)  $3 \times 15$
17. The ratio of 0.450 kg to 9kg is \_\_\_\_\_ ( )  
 A) 1:2 (B) 2:1 (C) 1:20 (D) 20:1
18. Which of the following ratios is equal to 13:4 in its simplest form? ( )  
 A) 18:8 (B) 105:36 (C) 91:28 (D) 144:250
19. The ratio of ( $\frac{1}{3}$  of Rs. 9.30) to (0.6 of Rs. 1.55) ( )  
 A) 1:3 (B) 3:10 (C) 10:3 (D) 3:1
20. The length of a rectangular plot is 20 metres more than its breadth. If the cost of fencing the plot at 26.50 per metre is Rs. 5300, what is the length of the plot in metres? ( )  
 (A) 40 (B) 50 (C) 120 (D) None of these
21. Convert 8 h 20 min pm 12 hours time to 24 hours time: ( )  
 A) 15 h 45 min (B) 20 h 20 min (C) 11 h 30 m (D) 20 h 12 min
22. If we have to lift a mass of 1 kg vertically upward, then force required in Standard International (SI) system \_\_\_\_\_ ( )  
 A) 1 N (B) 1 dyne (C) 10 N (D) 10 dynes
23. An effort of 8 kgf is applied on a machine for movement of a load of 100 kgf. Calculate mechanical advantage. ( )  
 A) 800 kgf (B) 8 kgf (C) 10 (D) 12.5
24. Which statement is not correct? The image formed in a pinhole camera is: ( )  
 A) real (B) inverted (C) smaller than object (D) virtual
25. Identify the ferromagnetic substance from the following: ( )  
 A) Aluminium (B) Ebonite (C) Nickel (D) Mica
26. Which of the following is the chemical formula of Zinc Oxide? ( )  
 A) ZnO (B)  $Zn_2O$  (C) ZO (D)  $Z_2O$
27. Which one of the following is a water borne disease? ( )  
 (A) Paralysis (B) Joint Pain (C) Typhoid (D) Tuberculosis

28. How many water molecules are present in copper sulphate? (Blue Vitriol) ( )  
A) 10 (B) 7 (C) 2 (D) 5
29. Atoms having same mass number but different atomic numbers are called: ( )  
A) Isobars (B) Isotopes (C) Isotones (D) Isomers
30. The gas liberated, when magnesium reacts with dilute hydrochloric acid is: ( )  
A) Nitrogen (B) Oxygen (C) Carbon dioxide (D) Hydrogen
31. Which is not an aquatic animal? ( )  
A) Hydra (B) Jelly fish (C) Corals (D) Filaria
32. Which one is a true fish? ( )  
A) Jelly fish (B) Star fish (C) Dog fish (D) Silver fish
33. Who is called the father of Immunology? ( )  
A) Louis (B) Edward Jenner (C) Robert Koch (D) Iwanowsky
34. Bile juice is produced by \_\_\_\_\_ ( )  
A) Pancreas (B) Gall bladder (C) Liver (D) Stomach
35. The deoxygenated blood is pumped into the lungs from \_\_\_\_\_ ( )  
A) Right ventricle (B) Right atrium (C) Left atrium (D) Left ventricle
36. The waste water produced and released by hospitals. ( )  
A) Domestic sewage (B) Commercial sewage  
(C) Industrial sewage (D) Rain water
37. Which of the following is an example of hinge joint? ( )  
A) Ankle (B) Finger (C) Shoulder (D) Neck
38. Our hair and nails contain. ( )  
A) Protein (B) Calcium (C) Chlorine (D) Phosphorus
39. Pigmentation of skin is due to. ( )  
A) Lymphocytes (B) Monocytes (C) Leucocytes (D) Melanocytes
40. Amoebiasis is caused by ( )  
A) Plasmodium vivax (B) Entamoeba gingivalis  
C) Entamoeba histolytica (D) Trypanosoma gambiense
- Choose the correct punctuation option to make the sentence grammatically correct.**
41. She speaks English Hindi and German. ( )  
A) Comma (B) Full stop (C) Semi colon (D) Colon
42. He entered the store and said, I want to buy a new computer. ( )  
A) Comma (B) Inverted comma (C) Full stop (D) Exclamation mark
- Choose the sentences which are correctly punctuated:**
43. A) You are coming aren't you? (B) You are coming, aren't you! ( )  
C) You are coming aren't you. (D) You are coming, aren't you?

44. A) The potion contained: fruit, biscuits and glue. ( )  
B) The potion contained fruit, biscuits and glue.  
C) The potion: contained fruit, biscuits and glue.  
D) None of these.

**Choose the correct word/option with spellings to replace the given phrase.**

45. Very bad or unpleasant. ( )  
A) dispicable (B) despicable (C) despicable (D) dispeccable
46. Sure to happen. ( )  
A) enevitable (B) inavitable (C) inevetable (D) inevitable

**Find out the word/option with incorrect spelling.**

47. A) temperature (B) emergency (C) mith (D) rumour ( )
48. A) partial (B) pateint (C) unsuccessful (D) immediate ( )

**Choose the correct synonym to replace the underlined word in the following sentence.**

49. It is hard to imagine him involved in something illegal. ( )  
A) unlawful (B) wrong (C) crime (D) sin
50. A winter trek up these mountains is not for the reckless and faint-hearted ( )  
A) wealthy (B) careless (C) strong (D) lazy
51. The author of "India Wins Freedom" is \_\_\_\_\_ ( )  
A) Maulana Abul Kalam Azad (B) Mohan Rakesh  
(C) Indira Gandhi (D) Jawaharlal Nehru
52. "Man & Superman" is written by \_\_\_\_\_. ( )  
A) George Orwell (B) James.H.Jones  
(C) George Bernard Shaw (D) Kuldeep Nayyar
53. Who wrote "Freedom at Midnight"? ( )  
A) E.M.Foster (B) Harry crews (C) P.Snow (D) Lary Collins and Dominique Gaspiere
54. The epic named "Mahabharata" was written by \_\_\_\_\_. ( )  
A) Devanand (B) Acharya Tulsi (C) Maharishi Ved Vyas (D) Mohan Rakesh
55. "Lewis Carrol" is the writer of \_\_\_\_\_. ( )  
A) Alice in Wonderland (B) A Childhood (C) Bad Blood (D) A Dangerous Place
56. The currency of Australia ( )  
A) Dollar (B) Taka (C) Riyal (D) Pound
57. The currency of Bangladesh ( )  
A) Pound (B) Euro (C) Dinar (D) Taka
58. Dollar is the currency of ( )  
A) Mexico (B) Japan (C) Italy (D) Canada
59. The currency of Cuba ( )  
A) Dinar (B) Euro (C) Dollar (D) Peso
60. Who will be the next chief election commissioner of India? ( )  
A) Om Prakash rawat (B) Achal Kumar Jyoti (C) Sukumar Sen (D) T.N Sheshan