

# INTERNATIONAL TALENT SEARCH EXAMINATION

## 2024 – 2025 PRACTICE PAPER

### CLASS – VIII ( SCIENCE )

#### Set – B

1. First bio insecticide developed on commercial scale was  
(A) Quinine (B) DDT  
(C) Organophosphate (D) Sporeine
2. Nitrogen content of urea is  
(A) 46% (B) 36%  
(C) 26% (D) 56%
3. Nitrogen cycle includes  
(A) Nitrogen fixation (B) Ammonification  
(C) Denitrification (D) All of these
4. Which of the following is a useful functional association between fungi and the roots of higher plants?  
(A) Biofertilizer (B) Coralloid root  
(C) Mycorrhiza (D) Lichen
5. The plastics if are hard, become soft and readily workable by addition of certain compounds called :  
(A) Catalyst (B) Telomers  
(C) Plasticiser (D) Vulcaniser
6. Which of the following polymers are hard?  
(A) Linear (B) Cross linked  
(C) Branched chain (D) Thermoplastic
7. Which is not the characteristic property of gold?  
(A) Ductile (B) Highly reactive  
(C) Malleable (D) None of these
8. Which of the following is not used for making ornament?  
(A) Silver (B) Gold  
(C) Platinum (D) Zinc
9. At high altitudes the air pressure (as compared to pressure on the surface of the earth) is  
(A) less (B) more  
(C) same (D) none of these
10. The pressure in liquid at greater depths is  
(A) smaller (B) greater  
(C) same (D) none of these
11. The maximum force of friction when the body is just beginning to move is known as the  
(A) limiting friction (B) rolling friction  
(C) static friction (D) sliding friction
12. The friction that exists between a surface sliding on another surface is called the  
(A) dynamic friction (B) rolling friction

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- (C) static friction (D) limiting friction
13. Wildlife protection act was passed in the year?  
(A) 1972 (B) 1970  
(C) 1982 (D) 1990
14. Uncontrolled deforestation leads to:  
(I) The destruction of habitats  
(II) Land slides  
(III) Flooding  
(A) (I) only (B) (I) and (II) only  
(C) (II) and (III) only (D) (I), (II) and (III)
15. Coal burns in air to produce:  
(A) CO<sub>2</sub> (B) N<sub>2</sub>  
(C) H<sub>2</sub>O (D) All of the above
16. Petroleum is also called:  
(A) American gold (B) Black gold  
(C) Black diamond (D) American diamond
17. Velocity of sound in air is:  
(A) 330 metres per second (B)  $3 \times 10^{10}$  metres per second  
(C)  $3 \times 10^8$  metres per second (D)  $3 \times 10^{19}$  metres per second
18. When mechanical waves have a frequency above the audible range, these are called:  
(A) sonics (B) infrasonics  
(C) ultrasonics (D) supersonics
19. Name the process in which the ingestion of material by the cells is done through the plasma membrane:  
(A) Egestion (B) Diffusion  
(C) Osmosis (D) Endocytosis
20. The organization of units in a living organism follows this pattern .....  
(A) Cells form organs, tissues and systems (B) Cells form tissues, organs and systems  
(C) Cells form systems, organs and tissues (D) Cells form organs, systems and tissues
21. Fires in underground coal mines usually occur due to :  
(A) Explosive combustion (B) Deliberate combustion  
(C) Spontaneous combustion (D) Rapid combustion
22. Taj Mahal is threatened due to effect of :  
(A) Cl<sub>2</sub> (B) SO<sub>2</sub>  
(C) O<sub>2</sub> (D) H<sub>2</sub>
23. The method of purifying metals by passing electricity is called  
(A) electrolysis (B) electroplating  
(C) electro refining (D) none of these
24. The charge carried by cations is  
(A) positive (B) negative

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- (C) positive or negative (D) none of these
25. Two objects repel each other. What charges might the objects have?  
(A) positive and positive. (B) positive and negative.  
(C) negative and negative. (D) both (A) and (C).
26. An object becomes charged when the atoms in the object gain or lose  
(A) protons. (B) neutrons.  
(C) electrons. (D) All of the above
27. The testes produce male gamete called:  
(A) Eggs (B) Ova  
(C) Sperm (D) None of these
28. Which one is the male reproductive organ?  
(A) A pair of testes (B) Epididymis  
(C) Vas deferens (D) All of the above
29. Hormone that maintains correct salt balance in the blood:  
(A) Thyroxine (B) Aldosterone  
(C) Insulin (D) None of these
30. The features which help to distinguish the male from the female are called:  
(A) Sex chromosomes (B) Primary sexual characters  
(C) Secondary sexual characters (D) All of these
31. Unchecked growth of weeds in a water body is also called  
(A) Water pollution (B) Eutrophication  
(C) Afforestation (D) None
32. Which of the following is NOT a water borne disease?  
(A) Diabetes (B) Typhoid  
(C) Cholera (D) Dysentery
33. A ray of light which bounces off the surface of mirror is called  
(A) normal (B) incident ray  
(C) reflected ray (D) none of these
34. The reflection taking place from the walls of a building is called  
(A) regular reflection (B) diffused reflection  
(C) multiple reflection (D) none of these
35. A group of stars having some known shapes is called  
(A) Constellation (B) Moon  
(C) Planets (D) Meteors
36. Which is the eighth planet in terms of its distance from the sun  
(A) Mars (B) Jupiter  
(C) Venus (D) Neptune
37. Removal of top soil by wind and water is called  
(A) Soil conversion (B) Soil binding  
(C) Soil erosion (D) Mulching

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38. In a microbiology laboratory, the technician used heat to sterilize the nutrient solution that is used to grow a fungus. When the heating system broke down, he sterilized the solution by passing it (in a sterile environment) through a sterile filter with a pore size of 0.2 micrometers. When the fungus was grown on the filtered nutrient solution it stopped growing and looked unhealthy within a few days. Which statement is the most likely explanation for the observed effects on the fungus?
- (A) The nutrient solution contained a virus  
(B) Heating makes the glucose in the nutrient solution more digestible  
(C) Filtering removed one of the larger nutrient molecules  
(D) Filtering changed the pH of the nutrient solution
39. Which of the following has the largest molecular mass?
- (A) Monomer (B) Dimer  
(C) Polymer (D) All have same molecular mass
40. Which is not the constituent of steel?
- (A) Iron (B) Chromium  
(C) Zinc (D) None of these
41. The pressure at any point in a liquid at rest depends only on the depth and on the .....of the liquid.
- (A) density (B) weight  
(C) colour (D) none of these
42. The force of friction between two bodies is
- (A) Parallel to the contact surface (B) Perpendicular to the contact surface  
(C) Inclined at 30° to the contact surface (D) Inclined at 60° to the contact surface
43. Energy flow in an ecosystem is:
- (A) Multidirectional (B) Unidirectional  
(C) Bidirectional (D) Circular
44. Gasoline is the name of:
- (A) Crude oil  
(B) Petrol  
(C) The mixture of uncondensed gases produced in the distillation of crude oil  
(D) The mixture of the residue and gas oil obtained in the distillation of crude oil
45. An echo is heard when minimum distance of the reflecting surface is:
- (A) 10 cm (B) 17 m  
(C) 34 cm (D) 340 cm