

CHENNAI - DIST

**Class : 8**Register  
Number**COMMON HALF YEARLY EXAMINATION - 2022-23**

Time Allowed : 2.30 Hours]

**SCIENCE**

[Max. Marks :100

**PART - I****I. Choose the correct answer.**

15x1= 15

1. Luminous intensity is the intensity of -----  
a) Laser light                      b) UV light                      c) Visible light                      d) IR light
2. Unit of Pressure is -----  
a) Pascal                              b) Nm<sup>2</sup>                              c) Poise                              d) both a and b
3. If the focal length of a spherical mirror is 10 cm, what is the value of its radius of Curvature?  
a) 10 cm                              b) 5 cm                              c) 20 cm                              d) 15 cm
4. The Process of Converting a Liquid into a solid is called -----  
a) Sublimation                      b) Condensation                      c) Freezing                      d) Deposition
5. The Electrification of two different bodies on rubbing is because of the transfer of -----  
a) neutrons                              b) Protons                              c) electrons                              d) Protons and neutrons
6. Find the odd one out  
a) Harmonium                      b) Flute                              c) Nadaswaram                      d) Violin
7. The symbol of Mercury is  
a) Ag                                      b) Hg                                      c) Au                                      d) Pb
8. In Haber's Process of Producing ammonia ----- is used as a catalyst.  
a) nitrogen                              b) hydrogen                              c) iron                                      d) nickel
9. Aerated water contains  
a) Air                                      b) Oxygen                              c) Carbon dioxide                      d) nitrogen
10. In water, hydrogen and oxygen are combined in the ratio of ---- by mass  
a) 1 : 8                                      b) 8 : 1                                      c) 2 : 3                                      d) 1 : 3
11. Which of the following is a water Pollutant?  
a) Lead                                      b) Alum                                      c) Oxygen                                      d) Chlorine
12. In acidic solutions blue litmus changes into ----- colour  
a) blue                                      b) green                                      c) red                                      d) white
13. ----- shows both living and non - living characteristics.  
a) Protozoa                              b) Virus                                      c) Bacteria                                      d) Fungi
14. Penicillin is an antibiotic which is extracted from  
a) Algae                                      b) fungi                                      c) bryophytes                                      d) pteridophytes
15. In the absence of oxygen, glucose is broken down into -----  
a) lactic acid                              b) citric acid                              c) acetic acid                              d) nitric acid

**II Fill in the blanks.**

5X1=5

16. The closeness of the measured value to the original value is -----
17. The body which has lost electrons becomes -----
18. ----- is called as Vital life.
19. The book "Genera Plantarum" was published by -----
20. A structure which Provides rigid frame work to the body is called -----

**III Match the following.**

5x1=5

21. Conduction                      - liquid
22. Convection                      - Gas to liquid
23. Radiation                      - Solid to gas
24. Sublimation                      - Vacuum
25. Condensation                      - Solid

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**IV. State true or false. If false, correct the statement.**

5x1=5

26. Force acting on a given area is called pressure.
27. In Parallel Circuit. Current remains the same in all components.
28. A Chemical reaction is a temporary reaction.
29. The dominant phase of the bryophytes is Sporophyte.
30. Using clean toilets for defecation is a good practice.

**V. Complete the analogy.**

2x 2= 4

31. Knot in a thread : ----- friction : : Ball bearing : ----- friction
32. Downward force : Weight : Upward force Offered by liquid : -----

**VI. Draw the neat diagrams and label the parts of the following.**

2x3=6

33. (i) Structure of yeast (ii) Structure of human eye.

**PART - II****VI. Answer any 15 of the following questions.**

15x2=30

34. Define - Ampere.
35. State Pascal's law.
36. State Laws of reflection.
37. Define one Calorie.
38. Give some uses of electroplating.
39. What are the hazards of noise pollution?
40. Write the symbols for the following elements.
  - a) Oxygen
  - b) Gold
  - c) Calcium
  - d) Iron
41. Define Catalysis.
42. Mention the Physical Properties of Oxygen.
43. Write the names of the following Compounds.
  - a) CO
  - b) NO<sub>2</sub>
44. What are the methods of removing hardness of water?
45. Write any two physical properties of acids.
46. (i) Name the bacteria used in the production of Vinegar.  
(ii) Write the name of any nitrogen fixing bacteria.
47. Write any two economic importance of fungi.
48. Define - Metabolism?
49. Why our backbone is slightly moveable?
50. What is ligament?
51. List out the changes which Occur during Puberty.
52. Explain Menarche.
53. Write any two characters off dicotyledous.

**PART - III****VII. Answer any six in detail.**

6x5=30

54. List out the base quantities with their units.
55. Explain the working of a Periscope.
56. Explain Series and Parallel Circuit.
57. What are the effects of Acid rain? How can we prevent them?
58. Explain the different ways by which water gets polluted?
59. Write any five differences between Monocot and Dicot plants.
60. What are the functions of Skeleton in Human body?
61. Explain the nutritional needs of adolescence in brief.