

# A COMMON HALF YEARLY EXAMINATION - 2022

## Standard - VIII

Time : 2.30 hrs

SCIENCE

Marks: 100

Part - I

16×1=16

I. Choose the best answer:-

- 1) SI unit of Temperature is \_\_\_\_\_  
a) Celsius      b) Fahrenheit      c) Kelvin      d) ampere
- 2) Pascal's law is used in \_\_\_\_\_  
a) hydraulic lift      b) brake system      c) pressing heavy bundles      d) All the above
- 3) The spherical mirror with a reflecting surface curved inward is called \_\_\_\_\_  
a) Convex mirror      b) Concave mirror      c) Plane mirror      d) None of the above
- 4) The process of converting a liquid into a solid is called \_\_\_\_\_  
a) Sublimation      b) Condensation      c) freezing      d) deposition
- 5) When an ebonite rod is rubbed with fur, the charge acquired by the fur is \_\_\_\_\_  
a) negative      b) positive      c) Partly positive and partly negative      d) None of these
- 6) Which of the following may be caused by noise?  
a) Irritation      b) Stress      c) Nervousness      d) All the above
- 7) The liquid metal used in Thermometers is \_\_\_\_\_  
a) copper      b) mercury      c) silver      d) gold
- 8) \_\_\_\_\_ undergoes rusting  
a) Tin      b) Sodium      c) Copper      d) Iron
- 9) Aerated water contains \_\_\_\_\_  
a) air      b) oxygen      c) carbon dioxide      d) nitrogen
- 10) Which of the following is a water pollutant?  
a) Lead      b) Alum      c) Oxygen      d) chlorine
- 11) We brush our teeth with tooth paste because it is \_\_\_\_\_ in nature  
a) basic      b) acidic      c) Both a and b      d) None of these
- 12) Microorganisms are measured in \_\_\_\_\_  
a) cm      b) mm      c) micron      d) meter
- 13) One of the following is an edible mushroom  
a) Polyporus      b) Agaricus      c) Pexaicillium      d) Aspergillus
- 14) \_\_\_\_\_ cells are specialised cells that can be transformed into any kind of cells  
a) Nerve      b) stem      c) Heart      d) Bone
- 15) \_\_\_\_\_ is the longest and strongest bone of the human skeleton  
a) Pelvic bone      b) Thigh bone      c) Arm bone      d) Shoulder bone
- 16) Adolescence is the period of life between \_\_\_\_\_ years of age  
a) 10 to 16      b) 11 to 17      c) 11 to 19      d) 11 to 20

Part - II

12×2=24

II. Answer any 12 of the following:-

- 17) i) \_\_\_\_\_ is used to measure electric current. *Ampere*  
ii) Hydraulic lift works under the principle of *Pascal's law*
- 18) i) \_\_\_\_\_ is the smallest particle of an element. *atom*  
ii) Water contains \_\_\_\_\_ and \_\_\_\_\_ element. *hydrogen, oxygen*
- 19) i) Microorganism can be seen with the help of a *Microscope*  
ii) The place where two bones meet is termed as *Joint*
- 20) State true or false. If false, correct the statement.  
i) Quartz clocks are used in GPS devices. *False, Atomic*  
ii) The molecular formulae of water is H<sub>2</sub>O. *True*

A

(2)

VIII SCIENCE


*Faleg*  
*Thermometer*

- 21) State true or false:  
 i) CFC is a pollutant *T true*      ii) Pinus is a closed seeded plant *Thermometer*  
 22) Give the name of the instrument used for the measurement of Temperature  
 23) What are the applications of conduction in our daily life?  
 24) What are the types of Electric circuit?  
 25) Name the metals that are used in jewellery.  
 26) On heating, Calcium Carbonate gives calcium oxide and oxygen. Is it an exothermic reaction or an endothermic reaction?  
 27) What is dry ice? What are its uses?  
 28) i) Who discovered Penicillin?  
 ii) Which diseases can be prevented by Vaccination?  
 29) Define, Thallus  
 30) Explain Menarche  
 31) How is the skeleton of a bird well-suited for flying?

Part - III

8×4=32

III. Answer any 8 of the following:-

- 32) Match the following:-  
 i) ultrasonics - Frequency below 20Hz *3*  
 ii) Speed of sound in air - Needs material medium *4*  
 iii) Infrasonics - 330ms<sup>-1</sup> *2*  
 iv) Sound propogations - Frequency more than 20000 Hz. *1*
- 33) State Pasaal's law and mention its applications.  
 34) i) Mention few measures to be taken to reduce the effect of noise pollution.  
 ii) Name three types of heat transfer.  
 35) i) In this figure, Pencil will appear to be bent at the surface of the water. Why?  
 ii) Give two examples of the utility of friction in day to day life.
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- 36) i) Can you store pickle in an aluminium utensil? Give reason  
 ii) What is Pollution?  
 37) What are the effects of Global-warming?  
 38) i) State the law of conservation of mass  
 ii) Water is a universal solvent - Give reason.  
 39) i) Define - Prokaryotic cell.  
 ii) Explain the importance of cleanliness during the time of menstrual cycle in girls.  
 40) Draw the structure of human eye and label its parts.  
 41) Match the following:-  
 i) Nitrogen fixing bacteria - Vaccine *4*  
 ii) Tuberculosis - Prion *3*  
 iii) Kuru - Bacteria *2*  
 iv) Edward Jenner - Rhizobium *1*

Part - IV

4×7=28

IV. Answer the all questions:-

- 42) List out the base quantities with their units.  
 Explain the working of Thermos flask *[or]*  
 43) What are the differences between metals and Non-metals. *[or]*  
 i) Find the valency of the element which is underlined in the following formula.  
 a) NaCl      b) CO<sub>2</sub>      c) Al(PO<sub>4</sub>)<sub>3</sub>      d) Ba(NO<sub>3</sub>)<sub>2</sub>      e) CaCl<sub>2</sub>  
 ii) Give any two properties of Anode rays.  
 44) Write a short note on common human diseases caused by microorganisms. *[or]*  
 Write the names of medicinal plants and explain their uses.  
 45) Write about the human axial skeleton, giving suitable labelled diagram. *[or]*  
 What are the physical changes that occur in boys and girls during adolescence?  
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