

8TH SCIENCE HALF YEARLY EXAM IMPORTANT QUESTION ANSWERS

PORTIONS: 1, 2, 3, 4, 5, 6, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20 lessons

Set A.

Give Short Answers:

PHYSICS

- 1) How many base quantities in SI system?
(Ans) 7.
- 2) How many times will the minute hand rotate in one hour?
(Ans) 1 time
- 3) Name the three scales of temperature?
(Ans) Celcius, Farenheit, Kelvin.
- 4) Name two instruments to measure pressure of fluid?
(Ans) Manometer, Pressure gauge.
- 5) Why are heavy bags provided with broader straps?
(Ans) For giving less pressure on Shoulders
- 6) State the laws of reflection?
(i) The incident ray, the reflected ray and the normal lie in same plane.
(ii) The angle of incidence is equal to the angle of reflection.

7) what are the effects of heat?

(Ans) (i) Expansion.

(ii) Increase in temperature

(iii) Change of state.

8) An iron ball requires 1000 J of heat to raise its temperature by 20°C . Calculate the heat capacity of the ball?

$$\begin{aligned} \text{(Ans) heat Capacity} &= \frac{Q}{\Delta T} = \frac{1000}{20} \\ &= 50 \text{ JK}^{-1} \end{aligned}$$

9) Name three types of heat transfer?

(Ans) Conduction, Convection, Radiation.

10) What is earthing?

(Ans) Connecting to the ground.

11) Give two differences between Music and Noise

Music	Noise
(i) Pleasant	Not pleasant.
(ii) Regular Vibration	Irregular Vibration

12) What is an Ultrasonic Sound?

(Ans) Sound with frequency greater than 20000 Hz .

CHEMISTRY

13) Why bells are made up of metals?

(Ans) Because they are Sonorous

(or)

Because they make ringing Sound

14) Define Alchemy?

(Ans) Process of Changing less Valuable metal to gold (in olden days)

15) Give two examples for metalloids?

(Ans) Boron, Silicon

16) What is the role of catalyst in a Chemical reaction?

(Ans) (i) Catalyst do not take part in Chemical reaction

(ii) Catalyst Speed up the reaction

Ex In dalda preparation, Nickel is added as catalyst.

17) What is global warming?

(Ans) Increase in temperature of atmosphere.

18) What is dry Ice? What are its uses?

(Ans) Solid CO_2 is dry ice (i) It is used as Refrigerant.

(ii) Dry ice is used to make movie effects

19) State the law of conservation of mass.
(Ans) In any chemical change,
Total Mass of Reactants = Total Mass of products.

20) What is chemical equation?
(Ans) Chemical equation is short hand representation of chemical reaction.

21) Water is universal solvent. Give Reason?
(Ans) Water is universal solvent because it dissolves many substances.

22) Define Potable water?
(Ans) Potable water is water used for drinking.

23) What are similarities between Acids and bases?
(Ans) Acids and Bases are,
(i) Corrosive (iii) Conduct electricity
(ii) Ionize (iv) Neutralise.

24) What is Neutralisation reaction?
(Ans) Acid + Base $\rightarrow$ Salt + Water.

25) Both lemon and curd are sour in taste. Why?
(Ans) (i) Because lemon has citric acid and curd has lactic acid and acids are sour to taste.

BIOLOGY

26) Name three Protozoans?

(Ans) Amoeba, Euglena, Paramecium.

27) What are Pathogens?

(Ans) Diseases causing germs.

28) How disease causing germs enter into human bodies?

(Ans) By wounds on Skin, mouth or Nose.

29) Define - Thallus?

(Ans) The plant body of Algae.

30) What is meant by Binomial nomenclature?
Give example?

(Ans) Naming of organism with two words.

Ex Mango - *Mangifera Indica*.

Rat - *Ratus Rattus*

31) State different types of tissues?

(Ans) (i) Epithelial (covering) tissue.

(ii) Muscular tissue.

(iii) Connective tissue.

(iv) Nervous tissue.

32) Mention the function of Alveoli.
(Ans). Exchange of gases.

33) What is Cranium?

(Ans) Skull is formed by 22 bones of which 8 bones are fixed together to form Cranium.

34) Differentiate Axial and appendicular Skeleton.

Axial Skeleton	Appendicular Skeleton
(i) Has Skull, Ribs and Sternum, Vertebral Column	Has Pectoral and Pelvic girdle.
(ii) Protect Brain, lungs, heart, Spinal Cord.	Protect Arms and legs.

35) Differentiate Movement and Locomotion

Locomotion	Movement
(i) Moving from one place to other	Moving parts of body
(ii) Voluntary	Voluntary or Involuntary

36) What is Adolescence?

(Ans). Period of transition from Child to Adult.

(or) Age from 10 to 19 years.

37) What do you mean by secondary sex characteristics?

(Ans) Physical features that distinguish male from female.

38) List out the changes which occur during puberty?

(Ans) (i) Changes in body size.

(ii) Development of primary and secondary sex characteristics.

Best wishes.