



Dnyansagar Coaching Classes, A'nagar

Std. - VII (Semi)

Sub- Science

Second Term Examination

Ch - 10 to 18

Time - 3 hrs

Max Marks - 80

- Q.1 A) Fill in the blanks by selecting correct option.** 4
- A man can hear sounds of frequencies between 20 Hz and _____ Hz.
 - The charge on an ebonite rod is _____.
 - In Greek , amber is called _____.
 - In drums, _____ vibrates to produce sound.
- B) Match the following.** 4
- | Column 'A' | Column 'B' |
|-------------------------|------------|
| i) Frequency | i) -ve |
| ii) Ebonite rod | ii) Hertz |
| iii) Pollution of sound | iii) +ve |
| iv) Glass rod | iv) noise |
- C) True or false.** 4
- Sound can get propagated through solid, liquid and gaseous medium.
 - Glycogen is stored in blood.
 - Iron is an important constituent of thyroxine.
 - The period of oscillation is measured in minutes.
- D) Find odd man out.** 4
- Cod liver oil, shark liver oil, sunlight, orange
 - Oil, ghee, butter, water
 - Papaya, Amla, lemon , orange
 - Meat, fish, pulses, bhakri.
- Q.2 A) Give Reasons. (3/5)** 6
- Chapati, bhakri and rice are important items in your diet.
 - If the string of the string telephone is broken or if it is knotted, the telephone does not work.
 - The plastic comb or ruler, rubbed on paper attracts the pieces of paper.
 - Raisins soaked in water swell up after some time.
 - A bat can fly and catch its prey even in darkness.
- B) Answer in one sentence. (6/8)** 6
- What is medium ?
 - What disorder is caused by the lack of iron?
 - Which substances are formed as a result of a neutralization reaction?
 - What factors are required by plants for making food?
 - What is the mass of 1 litre of water?
 - What charge do electrons have ?
 - Name some intoxicating substances.
 - Name some fibrous foods.
- C) Define. (2/4)** 4
- Oscillation
 - Autotroph
 - Reflex action
 - Electrical induction

- Q.3 A) Give differences (3/5) 6**
- 1) Acids and Bases
 - 2) Audible sounds and Inaudible sounds.
 - 3) Autotrophs and Heterotrophs
 - 4) Afferent nerves and Efferent nerves
 - 5) Music and Noise
- B) Answer the following. (3/6) 6**
- i) What are the various methods of preserving food?
 - ii) Why water is said to be a universal solvent?
 - iii) Give the functions of the Afferent nerves.
 - iv) Why do we need iron?
 - v) What should be done to prevent scurvy?
 - vi) What is meant by autrophic living things?
- C) Draw diagrams. (2/3) 4**
- i) Gold leaf electroscope
 - ii) An electroscope
 - iii) Human digestive system.
- Q.4 A) Answer in brief. (4/5) 8**
- 1) What is a sonar system based on ?
 - 2) Why does an indicator not affect common salt?
 - 3) What is the audible sound ?
 - 4) What is the disease caused due to the deficnecy of vitamin D?
 - 5) Why charge cannot be developed on a copper rod?
- B) Write the units for following :- 4**
- 1) Period of oscillation
 - 2) The unit for frequency per second
 - 3) Inaudible sound
 - 4) Amplitude of oscillations
- C) Complete the following reactions. (4/5) 04**
- 1) $2\text{Mg} + \text{O}_2 \rightarrow \dots\dots\dots$
 - 2) $\text{MgO} + \dots\dots\dots \rightarrow \text{Mg}(\text{OH})_2$
 - 3) $\dots\dots\dots + \text{H}_2\text{O} \rightarrow \text{H}_2\text{SO}_3$
 - 4) $\text{HCl} + \text{NaOH} \rightarrow \dots\dots\dots + \text{H}_2\text{O}$
 - 5) $\text{NH}_4\text{OH} + \text{HCl} \rightarrow \dots\dots\dots + \dots\dots\dots$
- Q.5 A) Write notes on. (2/4) 08**
- 1) Endocrine system
 - 2) Working of an electroscope
 - 3) Give a simple experiment to show that a medium is necessary for the propagation of sound. (Don't draw diagram)
 - 4) Concept of solute solvent and solution.
- B) Answer in brief. (2/4) 08**
- 1) How is ultrasound used in the medical and other sciences ?
 - 2) When is electric charge transferred ?
 - 3) How is the desired sound produced in stringed instruments?
 - 4) What is a balanced diet?