

DELHI PUBLIC SCHOOL
NAVI MUMBAI
REVISION

Class: VII
Subject: Science

Date of submission: 09.09.14

This Question Paper consists of 24 questions.

PHYSICS

Q1. Choose and write only the correct option.

- | | |
|---|------------------------------|
| i) Light passes through _____ completely. | |
| a) Frosted glass | b) Card board |
| c) Plain glass | d) Butter paper |
| ii) An MCB can be used in place of _____. | |
| a) A bulb | b) A fuse |
| c) An electric iron | d) An Electric bell |
| iii) A solenoid is - | |
| a) Similar to electromagnet | b) Weaker than electromagnet |
| c) Stronger than electromagnet | d) Not an electric appliance |

Q2. What do you mean by rectilinear propagation of light?

Q3. Draw a neat diagram to show regular reflection.

Q4. Name the effect on which an electric bell works.

Q5. Can you measure the wind speed? If yes, then name the instruments used for it. If not then why?

Q6. Which of the following is strictly prohibited during cyclones?

- a) Use of landline phones
- b) Parking of cars near trees
- c) Listen to radio for weather update
- d) Storing drinking water for emergencies

Q7. Give reason.

- i) During thunderstorm avoid going close to a metallic object.
- ii) Centre of cyclone is calm.

Q8. Differentiate between concave lens and convex lens alongwith a suitable diagram of both.

CHEMISTRY

Q9. Choose and write only the correct option.

- i) Rainwater that does not seep into the ground but runs off on the surface is called -
 - a) Water table
 - b) Surface water
 - c) Frozen water
 - d) Water cycle
- ii) The formula of rust is -
 - a) Fe_2O_3
 - b) FeO
 - c) Fe_3O_4
 - d) $\text{Fe}_2\text{O}_3 \cdot x\text{H}_2\text{O}$
- iii) Which of the following is not caused by increase in population?
 - a) Depletion of ground water
 - b) Excessive consumption of water
 - b) Conservation of water
 - d) Decrease in infiltration

Q10. Write the number of nucleons present in Sulphur, which has 16 neutrons. Also, state its atomicity.

Q11. Name the process (any two) that takes place in water cycle. Why is water cycle necessary for life?

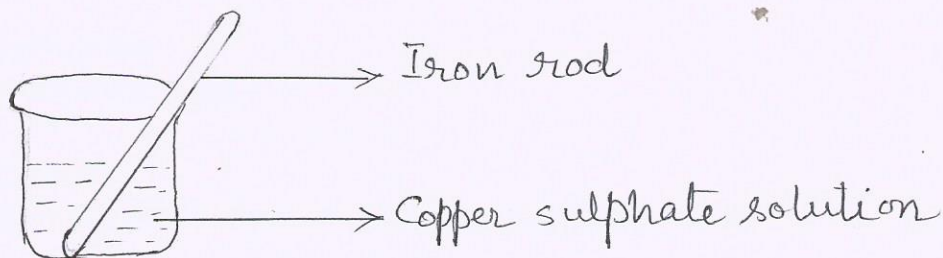
Q12. Write the numbers of atoms of each element present in -

- i) Aluminium sulphate
- ii) Magnesium bi-carbonate

Q13. Give reason.

- i) Indian farmers depend upon ground water for irrigating their crops.
- ii) In spite of being painted, ships get damaged.

Q14. Describe your observation for the reaction shown in the diagram. Define the type of reaction.



Q15. Translate into a balanced chemical equation.

- i) Sodium metal is formed and chlorine gas is released by the electrolysis of sodium chloride.
- ii) Potassium hydroxide and hydrochloric acid react together to give potassium chloride and water.

Q16. Answer the following.

- i) What is spring water?
- ii) What are the advantages of rainwater harvesting?

BIOLOGY

Q17. Choose and write only the correct option:

i) The digestive juice that does not contain any enzyme is _____.

- a) Bile juice
b) Saliva
c) Gastric juice
d) Pancreatic juice

ii). Which of the following is not a heterotroph?

- a) *Cuscuta*
b) *Nepenthes*
b) *Algae*
d) *Mistletoe*

iii) The end products of aerobic respiration are:

- a) $\text{C}_6\text{H}_{12}\text{O}_6$, CO_2
b) $\text{C}_2\text{H}_5\text{OH}$, CO_2
c) 6 CO_2 , $6 \text{ H}_2\text{O}$
d) $\text{C}_2\text{H}_5\text{OH}$, $6 \text{ H}_2\text{O}$

Q18. Name the respiratory organs of the following organisms.

- i) Cockroaches b) Prawns

Q19. Write any two points of difference between inhalation and exhalation.

Q20. What is assimilation?

Q21. How do the following glands help in digestion of food?

- [illegible]

Q22. Write the function of each of the following.

- i) Chlorophyll ii) Rumen

Q23. Select the odd one out and give reason.

Stomach, Guard cells, Xylem, Subsidiary cells

Q24. Draw a well labelled diagram of:

- i) Bread mould ii) Human digestive system iii) Human respiratory system
