

Annual Test Year 2017-18

Subject-Science

Class-10th

Time: 2Hrs

Total Marks: 75

Questions

SECTION-A

Q.1 Fill in the blanks:

[5]

- (i) is the smallest and the nearest planet to the sun of the solar system.
- (ii) The focal length of objective lens of a compound microscope is.....than the focal length of its eyepiece.
- (iii) Baking powder contains mainly.....
- (iv) The number of electrons in outermost orbit of carbon atom is.....
- (v) The leaves of neem are used as.....

Q.2 Choose the correct alternative:

[5]

- (i) Unit of potential Difference is:
 - a) Watt
 - b) Ampere
 - c) Volt
 - d) Ohm
- (ii) The metal which is stored in kerosene oil is :
 - a) Gold
 - b) magnesium
 - c) Sodium
 - d) Aluminium
- (iii) Lungs are located:
 - a) In thoracic cavity
 - b) In abdominal cavity
 - c) Near intestine
 - d) Below pancreas
- (iv) Excretory products by Kidney is:
 - a) Ammonia
 - b) CO₂
 - c) Urine
 - d) Sweat
- (v) The process of fusion of male gamete and female gamete is called:
 - a) Pollination
 - b) Fertilization
 - c) Cell maturation
 - d) Cell elongation

Q.3 Match the columns:

[5]

'A'	'B'
Akash Ganga	ajsfldjasklfd
asdkflalsfdj	alskfdjalsdfj
salkfdjal	aflkafld
asdkalfsj	falskdfjlasjdf

Q.4 Write the answer in one word/sentence each:

[5]

- (i) Write the full name of ISRO.
- (ii) Name the device used for the protection of electric circuit.
- (iii) Write the chemical formula of Bauxite.
- (iv) Which is main excretory organ of earthworm?
- (v) Which properties of plants are described in 'Rigveda'?

SECTION-B

Q.5 What is Galaxy ? What name is given to our galaxy ?

[2]

OR

What is space exploration ? Which country started it first of all ?

Q.6 What are the essential conditions for total internal reflection ?

[2]

OR

Describe dispersion of light and spectrum.

Q.7 Define 'One ampere'..

[2]

OR

What is induced current ? Why is it produced ?

Q.8 What is a functional group ? [2]

OR

What is aldol reaction ? Give its equation.

Q.9 Write down chemical properties of non-metals. [3]

OR

Draw a labelled diagram of blast furnace used in extraction of iron metal.

Q.10 Give description of extraction of sulphur by Frasch process with labelled diagram. [3]

OR

What is Bauxite ? Describe how the aluminium is extracted from it.

Q.11 What is Global Warming ? Explain. [3]

OR

What do you mean by medicinal plants ? Write any four seasonal medicinal plants and their medical importance.

Q.12 Write four preventive measures to control air pollution. [3]

OR

Write the medicinal importance of the following trees:

a) Amla b) Bel c) Neem

Q.13 What is 'Long-Sightedness' or 'Hypermetropia' ? Explain with the help of diagram and how is it corrected ? [4]

OR

Explain the construction and working of an astronomical telescope through a ray diagram.

Q.14 An electric bulb is rated 200V-100W. Find the resistance of the bulb. [4]

OR

a) Write short note on Fleming's left hand rule.

b) Write a short note on Maxwell's cork screw rule.

Q.15 Differentiate between chemical reactions and nuclear reactions. [4]

OR

Why is bio-gas considered as an appropriate fuel?

Q.16 What do you mean by Polymers? Write any three polymers and their chemical formula. [4]

OR

Explain diagrammatically the quick vinegar method, for manufacturing acetic acid

Q.17 What is meant by pollination? Differentiate between self-pollination and cross pollination. [4]

OR

What is Genetics? Explain Mendel's "Law of Dominance" with line diagram.

Q.18 Write five important aspects of chemical equilibrium. [5]

OR

What happens when (give only chemical equation of the reaction):

a) Chlorine is passed through dry slaked lime.

b) Lime stone is heated at 1000°C.

c) Dil hydrochloric acid is added to sodium carbonate.

d) Sodium bicarbonate is heated.

Q.19 Explain the process of digestion in the stomach. [5]

OR

Differentiate between respiration and fermentation.

Q.20 Describe the blood-groups. [5]

OR

Write the names of main hormones found in plants. Give two functions of each of them.

