

Annual Test Year 2017-18
Subject-Science
Class-10th

Time: 2Hrs

Total Marks: 75

Questions

SECTION-A

Q.1 Fill in the blanks:

[5]

- is the smallest and the nearest planet to the sun of the solar system.
- The focal length of objective lens of a compound microscope is.....than the focal length of its eyepiece.
- Baking powder contains mainly.....
- The number of electrons in outermost orbit of carbon atom is.....
- 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
asdfkalfsj	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 give to our galaxy ?

[2]

OR

What is space exploration ? Which country started it frist 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]
	<u>OR</u>	
	What is aldol reaction ? Give its equation.	
Q.9	Write down cheical properties of non-metals.	[3]
	<u>OR</u>	
	Draw a labelled diagram of blast furnace used in extraction o iron metal.	
Q.10	Give description o extraction of sulphur by Frasch pocess with labelled diagram.	[3]
	<u>OR</u>	
	What is Buxite ? Describe how the aluminium is extracted from it.	
Q.11	What is Global Warming ? Explain.	[3]
	<u>OR</u>	
	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]
	<u>OR</u>	
	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]
	<u>OR</u>	
	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]
	<u>OR</u>	
	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]
	<u>OR</u>	
	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]
	<u>OR</u>	
	Explain diagrammatically the quick vinegar method, for manufacturing acetic acid	
Q.17	What is meant by pollination? Diferentiate between self-pollination and cross pollination.	[4]
	<u>OR</u>	
	What is Genetics? Explain Mendel's "Law of Dominance" with line diagram.	
Q.18	Write five important aspects of chemical equilibrium.	[5]
	<u>OR</u>	
	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]
	<u>OR</u>	
	Differentiate between respiration and fermentation.	
Q.20	Describe the blood-groups.	[5]
	<u>OR</u>	
	Write the names of main hormones found in plants. Give two functions of each of them.	