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Total NO OF Questions, 22

Total NO OF pages, 04

# Second Pre board Examination 2019-20

Class-10th Subject ~ Science

Time: 03 Hours INSTRUCTION :-

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Maximum Marks: 80

- All questions are compulsory
- ii. Question no 1 to 4 are objective type questions each questions carries 5
- iii. Internal options are given in questions 5 to 22
- iv. Marks of each question are indicated against it.
- v. Answer question no. 5 to 9 in about 30 word each
- vi. Answer question no 10 to 14 in about 75 word each.
- vii. Answer question no. 15 to 19 in about 120 word each.
- viii. Answer question no. 20 to 22 in about 150 word each.
- ix. Draw neat and well labeled diagram wherever required
- 1- Choose the correct option

5 Marks

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i.  $Fe_2O_3 + 2AI_{-}$  $Al_2O_3$  · 2Fe the above reaction is an example of a a)Combination b)Double displacement reaction c)Decomposition reaction d)Displacement reaction. 🗸

ii. The autotrophic mode of nutrition requires

a)Carbon dioxide and water b)Chlorophyll

c)Sunlight d)All of the above.

iii. The change in focal length of an eye lens is caused by the action of the.

b) Retina a) Pupil

c) Cilliary muscles 🗸 d)Iris

iv. First trophic level of an ecosystem is

b)Producers a)Consumers d)All of the above c)Decomposers

v SI unit of electric potential is

d)Ampere. c)Watt a)Volt / b)Joule

## Q-2.Fill in the blanks :-

5 Marks

----is the common name of i. The gap between two neurons is called a..... ii. layer shields the surface of the earth from ultraviolet radiation from iii. the sun.

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2 Marks

#### http://www.mpboardonline.com iν. .....is known as water man of India V. The splitting of light into its component colours is called ... Q.3.Match the column -5 Marks (A) (B) Most reactive metal a. Darwin ii. Master gland b. Ohm iii. Theory of natural selection c. Potassium iv. Energy currency d. Pitutary gland v. SI unit of resistance e. ATP Q.4.Write the Answers in one word /sentence each. 5 Marks Name the sodium compound which is used for softening hard water. ii. Define blood pressure. Name a mirror that can give an erect and enlarge image of an object. Write periodic law of Mendeleev. iv. Write full form of DNA. Q.5. Why Should a magnesium ribbon be cleaned before burning in air? 2 Marks OR Oil and fat containing food items are flushed with nitrogen why? Q.6 Why noble gas are placed in a separate group in periodic table? 2 Marks OR An atom has electronic configuration 2,8,7 a) What is the atomic number of this element? b) To which of the following elements would it be chemically similar. F (9) P (15) Q.7.What are the function of testies . 2 Marks OR What are the changes seen in girls at the time of puberty? Q.8. What is heredity? 2 Marks OR Why are the small numbers of surviving tigers a cause of worry from Q.9. The radius of curvature of a spherical mirror is 20 cm. What is its

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OR

Find the power of a concave lens of focal length 2 m.

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Q.10. What is a balanced chemical equation ? Why should chemical

3 Marks

OR

Why are decomposition reactions called the opposite of combination reactions? Write equations for these reaction

Q.11. Why does the sun appear reddish rarly in the morning?

3 Marks

Why does the sky appear dark instead of blue to an astronaut?

Q.12. When does an electric short circuit occur

3 Marks

What is the function of an earth wire? why earthing necessary to electric metallic appliances.

Q.13. Write three differences between direct current and alternating current

3 Marks

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State the Principle of an electric generator.

Q.14. Write three disadvantages of fossil fuel.

3 Marks

Why we need alternate Source of energy.

- Q.15. A milkman adds a very Small amount of baking soda to fresh milk.
  - (a) Why does he shift the pH value of the fresh milk from 6 to slightly
  - (b) Why does this take a long time to set as curd ? 4 Marks

OR

- (a) Why should curd and sour substances not to be kept in brass and Copper vessels?
- (b) While diluting an acid, why is it recommended that the acid Should be added to Water and not water to be acid.
- Q.16. Write IUPAC name and structural formula of first four hydroarben of 4 Marks alkane series.

OR

What is hydrogenation? write its, industrial application.

Q.17 Write four differences between aerobic and anaerobic respiration.

4 Marks

Write four differences between arteries and veins

Q.18 What is reflex action! Explain with example.

4 Marks

Draw a well labeled diagram of human brain.

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Q.19 On what factors does the recisionce of a Conductor depend? write.

4 Marks

Draw a schematic diagram of a circuit consisting of a battery of three cells of 2v each , a 5  $\Omega$  resistor , a 8  $\Omega$  resistor and a 12  $\Omega$  resistor , and a plug key all connected in scries

Q.20 What are alloys? Write names, and one use of any four alloys... 5 Marks -

OΒ

Write any five physical properties of metals

Q.21 How does the embryo get nourishment inside the mother's body ?Explain it

OR

5 Marks

Describe budding process in hydra with diagram

Q.22 a. Write the law's of refraction.

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5 Marks

b The refractive index of diamond is 2.42 what is the meaning of this Statement.

OR

- (a) Why do we prefer a convex mirror as a rear view in vehicles?
- (b) Write three differences between real and virtual image.

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