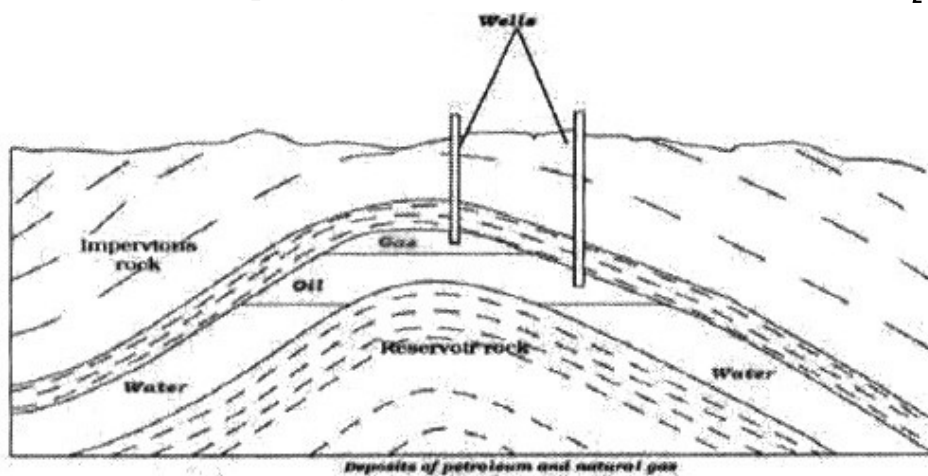


Name of the Student : Roll No. :

(Physical Science 10 Marks)

SECTION – I : Competency Based Questions

4 x $\frac{1}{2}$ = 2



Many useful substances are obtained from petroleum and natural gas. These are termed as Petrochemicals. These are used in the manufacture of detergents, fibres (polyester, nylon, acrylic etc.), polythene and other man-made plastics. Hydrogen gas obtained from natural gas, is used in the production of fertilisers (urea). Due to its great commercial importance, petroleum is also called 'black gold'.

1. The natural resource, which known as 'Black Gold' is []
 A) coal B) natural gas C) petroleum D) coal tar
2. The process of separating the various constituents of petroleum is called []
 A) ionization B) carbonization C) refining D) lubrication
3. The resources like petroleum present in limited quantity in nature are called []
 A) limited resources B) inexhaustible resources
 C) exhaustible natural resources D) natural resources

[Turn Over

2

4. The petrochemical used for making ointments and Vaseline is []
- A) bitumen
 - B) lubricating oil
 - C) paraffin wax
 - D) diesel

II. Fill in the blanks with suitable word/s **2 x 1 = 2**

5. Coal and petroleum and natural gas are _____ fuels.
6. Least polluting fuel for vehicle is _____

III. Short answer type questions **1 x 2 = 2**

7. What are the characteristics and uses of coke?

IV. Long answer type questions **1 x 4 = 4**

8. Why should people look for alternate fuels for fossil fuels ?

(Or)

How coal was formed ?

(Biological Science) Marks : 10

SECTION - A

Note : Answer the following questions. **2 x 1 = 2**

1. Rhizobium lives in the root nodules of leguminous plants such as beans and peas, with which it has a symbiotic relationship.
- A. Which part of the leguminous plant Rhizobium lives ?
 - B. What is symbiosis ?

SECTION - B

Note : Fill in the blanks with suitable words. **2 x 1 = 2**

2. Micro organisms can be seen with the help of _____.
3. _____ discovered the vaccine for small pox in 1798.

SECTION - C

Note : Short answer questions. **1 x 2 = 2**

Answer any one question.

4. What is Pasteurisation ? What is the use of it ?
5. What precautions must be taken while taking antibiotics ?

[Contd... 3rd

SECTION - D

Note : Answer ANY ONE question.

question carries 4 marks.

1 x 4 = 4

6. A) Draw the diagrams of chlamydomonas and Amoeba.

(Or)

B) Read the following table and answer the questions given.

Human disease	Causative micro organism	Mode of transmission	Preventive measures
Tuberculosis	Bacteria	Air	Isolation and vaccination.
Malaria	Protozoa	Mosquito	Use mosquito net, Spray insecticides
Polio	Virus	Water	Isolation, Vaccination
Hepatitis - A	Virus	Water	Drinking boiled water, Vaccination.

- Which Micro Organism causes Tuberculosis ?
- What are the preventive measures for Hepatitis - A ?
- How is Polio transmitted ?
- What are precautions to be taken for Malaria ?