Assignment 1 Grade XI

विषय : नेपाली

१. तल दिइएका वणहरुलाई घोषत्व र प्राणत्वका आधारमा छुट्याउनुहोस :

क, ख ,ट , झ

२. तल दिइएका शब्दलाई वाक्यमा प्रयोग गर्नुहोस् :

पर्वत ,तीर ,बहादुर ,नभ

३.हामीले हाम्रा वीर पुर्खाको गौरव कसरी जोगाउन सक्छौं ?

४. "गाउँको माया" कथाको आधारमा कथाकार इस्लामीलाई चिनाउनुहोस ।

English

1. Attempt the following questions:
   a. What is the main theme of the story 'The Selfish Giant?' Does God punish those who are cruel to children and very selfish?
   b. Why do you think the spring season did not come to the giant's garden? How does the giant realize his mistake?
   c. Does the story 'The Oval Portrait' suggest that the woman's beauty condemns her to death? Explain your answer citing examples from the text.
   d. What role does religion play in Aksionov's life? How does he undergo a spiritual transformation in the story?
   e. What does the story 'God Sees the Truth But Waits' tell us about the existence of unfair system of justice?
   f. Summarize the story 'Civil Peace'.

Physics

1.0 If $y = a+bt+ct^2$, Where y is the distance and t is the time. What is the dimension and unit of C?

2.0 Find the dimension formula for following physical quantities.
   A) Force   B) density   C) work

3.0 The density of water is $1 g/cm^3$ what is this value is kg/m^3 ? Using dimensional analysis.

4.0 state and explain zeroth law of thermodynamics

5.0 Convert $98°F$ into Kelvin scale.

6.0 Define absolute zero temperature. Are both K.E and P.E becomes zero at this temperature?

7.0 Define linear and cubical expansion. Derive the relation between them

8.0 Write any three application of thermal expansion.

Chemistry

1.0 Define radical. Why NH_4^+ is a compound radical?

2.0 State law of conservation of mass why this law is indestructibility of matter?

3.0 State law of multiple of proportions.

4.0 H and O combine separately to give H_2O respectively. Which law of stoichiometry is illustrated? Illustrate this law.

5.0 Define the atomicity of a gas. Prove that N_2 is diatomic gas.

6.0 What are nascent and atomic Hydrogen? Write their difference.

7.0 Write the use of heavy water.

8.0 What are oxides? What are its type according to the chemical behavior? Mention with example.

Biology

1.0 Define Biomolecules. Differentiate between organic and inorganic biomolecules.

2.0 What are carbohydrate? List their types and characteristics with examples of each.

3.0 Explain the various types of protein differentiate between essential and non-essentials amino acids

4.0 Write short note on following headline
   a) Drawinism
   b) Neo-Drawinism
   c) Lamarckism

5.0 Explain sexual reproduction of Paramecium.

6.0 What is evolution? Explain human evolution in details.