

# Riviera International Academy

## Assignment-2077

Day 8 (Baisakh 15, 2077, Monday)

Class: Nine Date:- \_\_\_\_\_ Name:- \_\_\_\_\_

### Subject: English

1. Collect any five irregular verbs and write their different forms. (V1 to V5)

### Subject - Social Studies

1. List the points of 'Sugauli Treaty'.
2. Explain the *parvas* of 2038 B.S. and 2042 B.S.

### HPE

1. Read the following points repeatedly.

- Insufficiency in the supply of nutrients needed for the body is known as malnutrition.
- If the food items available in the local context are properly collected and utilized, this becomes a balanced diet. - We can get different nutrients in locally available foods as well.
- A kind of disorder that appears in children due to deficiency of carbohydrates and protein in the body is called Marasmus.
- The disease caused by deficiency of vitamin C is Scurvy. It causes swollen and infected gums.
- Anemia is a kind of disease caused by deficiency of blood in the body due to various reasons.
- We have to be careful on the ways of protecting natural nutrients while preparing food.

### Subject – Science

1. What is indicator? What will change in colour when Methyl Orange is kept in acid and base solution?
2. Why is aluminium used to make body of aeroplane and space craft? Give two reasons.
3. Why is nucleus of an atom electrically neutral? Draw the atomic structure of Oxygen atom.

### Subject – Mathematics

1. Represent the sets  $H = \{h, e, a, d, s\}$  and  $T = \{t, a, i, l, s\}$  in a Venn-diagram and write  $H \cap T$  by listing method.
2. Draw a Venn diagram to illustrate the relation among the given sets:  $U = \{\text{Students of Nepal}\}$   $K = \{\text{Students of Kathmandu valley}\}$   $M = \{\text{Students of morning shift of Kathmandu}\}$   $D = \{\text{Students of day shift of Kathmandu}\}$
3. If  $P = \{a, e, i, o, u\}$  and  $Q = \{a, b, c, d, e\}$ , find  $Q - P$  and  $P - Q$ .

## 5. Factoize :

- $a^2 + ab + ca + bc$
- Factorize:  $x^2 - 3a + 3x - ax$
- Factorize:  $81x^4 - 16y^4$
- If  $(a+b) = 2$ , find the value of  $a^3 + b^3 + 6ab$ .
- Simplify:  $24 \times 40 - 20 \times 24$

## Subject – Opt. Mathematics

- If  $A = \{2,3\}$  and  $B = \{1,5\}$ , find  $A \times B$ .
- Find the value of  $x$  and  $y$  if  $(2x + 3, 5) = (3, 5y)$
- Let  $p(x) = 2x^4 - 3x^3 + 4x^2 + 4x - 7$  and  $Q(x) = (x - 4)$ . Find  $p(x) \div Q(x)$
- Prove that:  $\sec A \cdot \operatorname{cosec} A \cdot \cos^2 A = \cot A$
- Prove that :  $4\tan^2 30^\circ + 4\cot^2 30^\circ - 24\sin^2 45^\circ = 4/3$

## Computer

### 1) Select the best answer:

- An informal description of a program written in English language -
  - Algorithm
  - Flowchart
  - Pseudo code
  - Program
- Which software protects computer avoiding harmful programs?
  - System software
  - Antivirus
  - UPS
  - Application software
- A service that allows to use remote computer through Internet-
  - E-commerce
  - Telnet
  - Downloading
  - Uploading
- Virus is transmitted through –
  - Infected portable Disk
  - Dirty keyboard
  - Load shedding
  - All of them
- Network that connects computers within a city is -
  - LAN
  - MAN
  - WAN
  - All of them

### 2) Match the following:

- Cyber Law - Moral principles for using computer
- Cyber Crime - Software and peripheral devices
- ICT tools - Illegal activities on the use of computers
- Computer Ethics - Rules and regulations related to Internet

### 3) Write the full form of the following:

- IRC
- WWW
- MAN
- ICT
- NIC

## विषय – नेपाली

BLE वा व्याकरण किताबबाट नै बोध प्रश्न अनुच्छेद पढेर उत्तर लेख्नुहोस् । (कुनै दुई प्रश्न मात्र )

**The End.**