

Riviera International Academy

Revision Assignment-2077

Day 2 (Baisakh 8, 2077, Monday)

Class: Ten Date:- _____ Name:- _____

Subject: English

1. Write a short conversation between two friends talking about the *corona outbreak* in six exchanges.
2. Write a paragraph on your home stay during the lockdown.

Subject - Social Studies

- 1: Draw a map of Nepal and insert five national parks and conservation areas.
- 2: How are you utilizing this locked down period? Write a paragraph.
- 3: List out the important political dates with its events you had studied in Grade 8.
- 4: Show the relationship among agriculture, industry and trade through a picture.

EPH

- A. Do research about HIV/AIDS and prepare a research paper in about 300 words. Mention its causes, symptoms and prevention measures. You must write it in paper and prepare for the presentation.

Subject – Science

1. What is force? Write two effects of frictional force.
2. Define relative and uniform motion.
3. Define acceleration and velocity.
4. Calculate the distance travelled by a car which started from rest and attained the velocity of 20m/s in 4 seconds.
5. Define pressure and density.

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. Look at the Venn diagram and list each of the sets and represent each of them by shading in separate Venn diagrams : (i) $X \cup Y$ (ii) $X \cup Y \cup Z$ figure (iii) $X \cap Y$ (iv) $(X \cap Y) \cap Z$.

3. In a survey carried out among 60 students it was found that 30 of them drank milk , 25 drank curd and 10 drank both milk and curd. (i) . Represent the above information in a Venn Diagram. (ii) . Find the number of students who didn't like drinking both milk and curd.

4. When a question was asked to 50 students staying in a hostel , 18 students said that they liked apples only; 15 liked oranges only and 10 didn't like any of them .(i). How many liked apples ?(ii). How many liked oranges ?(iii). Represent this information in a Venn diagram.

Long Questions

1. If $U = \{\text{Triangles}\}$, $R = \{\text{right angles triangles}\}$, $E = \{\text{equilateral triangles}\}$, (i) what type of set $R \cap E$ is formed ?(ii) represent $R \cap E$ by a venn diagram.

2. In a class of 30 students , 20 play cricket and 15 play volleyball. Each student play at least one game; find the number of students who play both the games. Represent the above information in a Venn Diagram.

Computer

1) Convert the number system as indicated:

a) $1110001_2 = (?)_{10}$ b) $264_8 = (?)_{16}$ c) $241_8 = (?)_2$

2) Perform the binary calculation:

a) $11110 + 10101$ b) $1110 - 1011$

3) Give full form of the following:

- a) GUI b) GIGO c) ENIAC d) IBM
e) ALU f) IRC g) ATM h) IC

4) Answer the following questions:

- a) What do you mean by generation of computer? List any two features of third generation of computer.
b) What is hybrid computer ? List any two examples of hybrid computer.
c) What is language translator? Write any two differences between Interpreter and Compiler.
d) What is an open source software? Write any two advantages of open source software.
e) Write any two negative and two positive impacts of computer in our society.

बिषय : नेपाली

१. खाली ठाउँमा उपयुक्त शब्द भर्नुहोस् ।

(क) 'नदी' को पर्यायवाची शब्द हो । (भरना, सरिता, तृण)

(ख) अनेकार्थी शब्द होइन् । (किताब, अर्थ, कर)

(ग) 'जीवन' को विपरीतार्थक शब्द हो । (मरण, मर्त्य, शव)

(घ) श्रुतिसमभिन्नर्थक शब्द हुन् । (दीन-दिन, कर-कर, वर-पर)

२. अर्थ स्पष्ट हुने गरी वाक्यमा प्रयोग गर्नुहोस् ।

इन्द्रको अगाडि स्वर्गको बयान, शल्यक्रिया

३. क) तल दिइएको शब्दमध्ये शुद्ध शब्द चिनेर लेख्नुहोस् ।

अ) जीवास्म जिवास्म जीवाश्म जीवाष्म

आ)जीवनशैली जिवनशैली जिवनसैली जीवनसैली

ख) तल दिइएको वाक्यलाई शुद्ध पारी लेख्नुहोस् ।

उहाँले भन्नुभयो भाई म खहरेले बगाएर ल्याइ बगरमा फालिएको बग्नेथो थिएँ ।

४. तलका रेखाङ्कित शब्दहरूको शब्दवर्ग छुट्याउनुहोस् ।

आफूदेखि बाहेक अरू मानिसहरूमा इमान्दारी छैन भन्ने सोच्नु गलत हो । यो कुरा सुनेर ऊ अचानक भस्कियो ।

५. अज्ञात भूतकालमा तीन ओटा क्रियापद प्रयोग गरी आफ्नो अधिल्लो दिनको काम गराइको

बारेमा बयान गर्नुहोस् ।

Subject – Opt. Maths

1. Read the formula for Trigonometric ratios.
2. Express all the trigonometric ratios of A in terms of $\cos A$.
3. If $\sin \theta = \frac{2\sqrt{a}}{a+1}$, find $\tan \theta$, $\cos \theta$ and $\operatorname{cosec} \theta$
4. If $\sin A = \frac{4}{5}$, find the value of $4\cos A + 3\tan A$.
5. Write the formula of 'TRIGONOMETRY'.
6. Prove that: $(1 + \cot^2 \theta) (1 - \cos^2 \theta) = 1$.
7. Prove that: $\tan^2 A \cdot \cos^2 A + \cot^2 A \cdot \sin^2 A = 1$.
8. Prove that: $\frac{1 - \cos^4 A}{\sin^4 A} = 1 + 2 \cot^2 A$

The End.