Riviera International Academy

Assignment-2077

(Ashad 12, 2077, Friday)

Class: Nine	Date:-	Name:-	

Subject – English

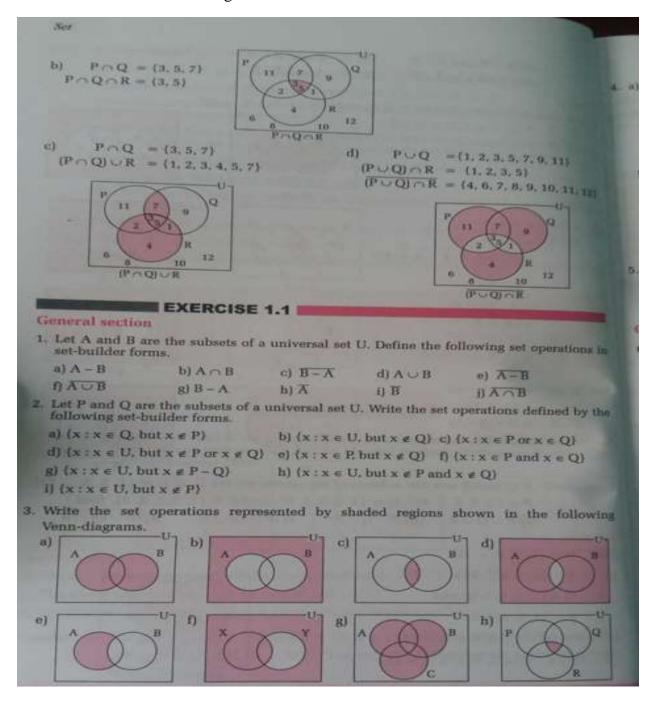
E books

The Foolish Fish

Pg 30 Read the poem and answers the following questions.

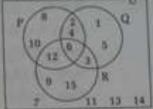
Subject- Mathematics

Source: Photo of exercise has given below.



- A and B are the subsets of the universal set U. From the given diagrams, list the elements of the following set operations.
 - III A UB and A UB
- (ii) A \ B and A \ B
- (iii) A B and A B
- (IV) B A and B A
- b) P. Q and R are the subsets of the universal set U. List the elements of the following set operations from the given diagram.
 - MPUQUE
- (III) PAQAR
- (iii) PUQUR

- (iv) PaQAR
- (V) (PUQ) OR (VI) (POQ) UR



- 5. a) Assuming that A and B are two overlapping sets, draw two separate Venn-diagrams to verify $A \cup B = B \cup (A - B)$ by shading.
 - b) Let P and Q are two overlapping sets. Draw two separate Venn-diagrams of $P \cup (Q-P)$ and $P \cup Q$ and verify $P \cup (Q - P) = P \cup Q$ by shading.

Creative section - A

- P and Q are the subsets of the universal set U. If U = {1, 2, 3, ... 10}, P = {1, 2, 3, 4, 5} and Q = {2, 4, 6, 8}, list the elements of the following set operations and represent them by shading in Venn-diagrams.
 - a) PUQ and PUQ
- b) PoQ and PoQ
- c) P Q and P Q

- d) Q P and Q P
- m) P U O

- DPOO
- $A = \{1, 3, 5, 7, 9, 11\}, B = \{1, 2, 3, 4, 5, 6, 7\}$ and $C = \{3, 6, 9, 12, 15\}$ are the subsets of the universal set $U = \{1, 2, 3, ..., 15\}$. List the elements of the following set operations and illustrate them in Venn-diagrams by shading.
 - a) AUBUC and AUBUC b) AnBnC and AnBnC
 - c) (A U B) a C and (A U B) a C d) A a (B U C) and A a (B U C)
 - e) (A B) U C and (A B) U C
- f) $A \cup (B-C)$ and $\overline{A} \cup (B-C)$

Greative section - B

- If $U = \{1, 2, 3, ..., 12\}$, $P = \{1, 2, 3, 4, 5, 6\}$, $Q = \{2, 4, 6, 8\}$ and $R = \{3, 6, 9, 12\}$. verify the following operations. a) $P \cup (Q \cap R) = (P \cup Q) \cap (P \cup R)$ b) $P \cap (Q \cup R) = (P \cap Q) \cup (P \cap R)$

- d) POQOR = PUQUR
- 9. a) If $A = \{2, 4, 6, 8, 10\}$ and $B = \{1, 3, 5, 7, 9\}$ are two disjoint sets verify that

 - b) If $A = \{2, 3, 5, 7\}$ and $B = \{1, 2, 3, 4, 6, 12\}$ are two overlapping sets, show that $n(A \cup B) = n(A) + n(B) - n(A \cap B).$

Work: complete all 1.1

श छद् अन्डारमा का पर्यायवाची अछद् शिविपरीतार्थक शहद
3 अनेकार्यक् शाष्ट्र 8 मुतिसम भित्नार्थक शाष्ट्रहरू
किशा एको वा कक्षा ९को व्याकरवाबार अध्यास
ार्नुहोस_। उदाहरकरः
(अन्त्य, सुक, मह्य)
शि'अ। हितक' शान्दकी विपरीतार्थक शान्द हो।
(सास्तिक, पश्चिक, अत्यधिक)
3 कर शकद हो। (अनेकार्थक पर्याथवानी,
स्रित्यम (भित्तार्थक)
शि तिर्- तीर् शाख्र हुत्। प्यायवासी,
अनेकार्थी, स्रात्सिम भित्नार्थी)

Subject- HPE

1) Read the text below and do the following activities:

Pollution is the degradation of natural environment by external substances introduced directly or indirectly. Human health, ecosystem quality and aquatic and terrestrial biodiversity may be affected and altered permanently by pollution.

Pollution occurs when ecosystems cannot get rid of substances introduced into the environment. The critical threshold of its ability to naturally eliminate substances is compromised and the balance of the ecosystem is broken.

The sources of pollution are numerous. The identification of these different pollutants and their effects on ecosystems is complex. They can come from natural disasters or the result of human activity, such as oil spills, chemical spills, nuclear accidents ... These can have terrible consequences on people and the planet where they live: destruction of the biodiversity, increased mortality of the human and animal species, destruction of natural habitat, damage caused to the quality of soil, water and air...

Preventing pollution and protecting the environment necessitate the application of the principles of sustainable development. we have to consider to satisfy the needs of today without compromising the ability of future generations to meet their needs. This means that we should remedy existing pollution, but also anticipate and prevent future pollution sources in order to protect the environment and public health. Any environmental damage must be punishable by law, and polluters should pay compensation for the damage caused to the environment.

Comprehension

- 1) The damage caused by pollution might be irreversible:
 - a) True
 - b) False
- 2) The ecosystem

- a. can always cope with pollutants
- b. may not always be able to cope with pollution.
- 3) Pollution
 - a) is always caused by humans.
 - b) may sometimes be caused by natural disasters.
- 4) An ideal solution to prevent pollution would be to
 - a) refrain the development of some countries.
 - b) continue developmental projects.
 - c) take into consideration the future generations need to live in a healthy environment.
- 5) Write your understanding of the text in forty words.

The End.