Riviera International Academy

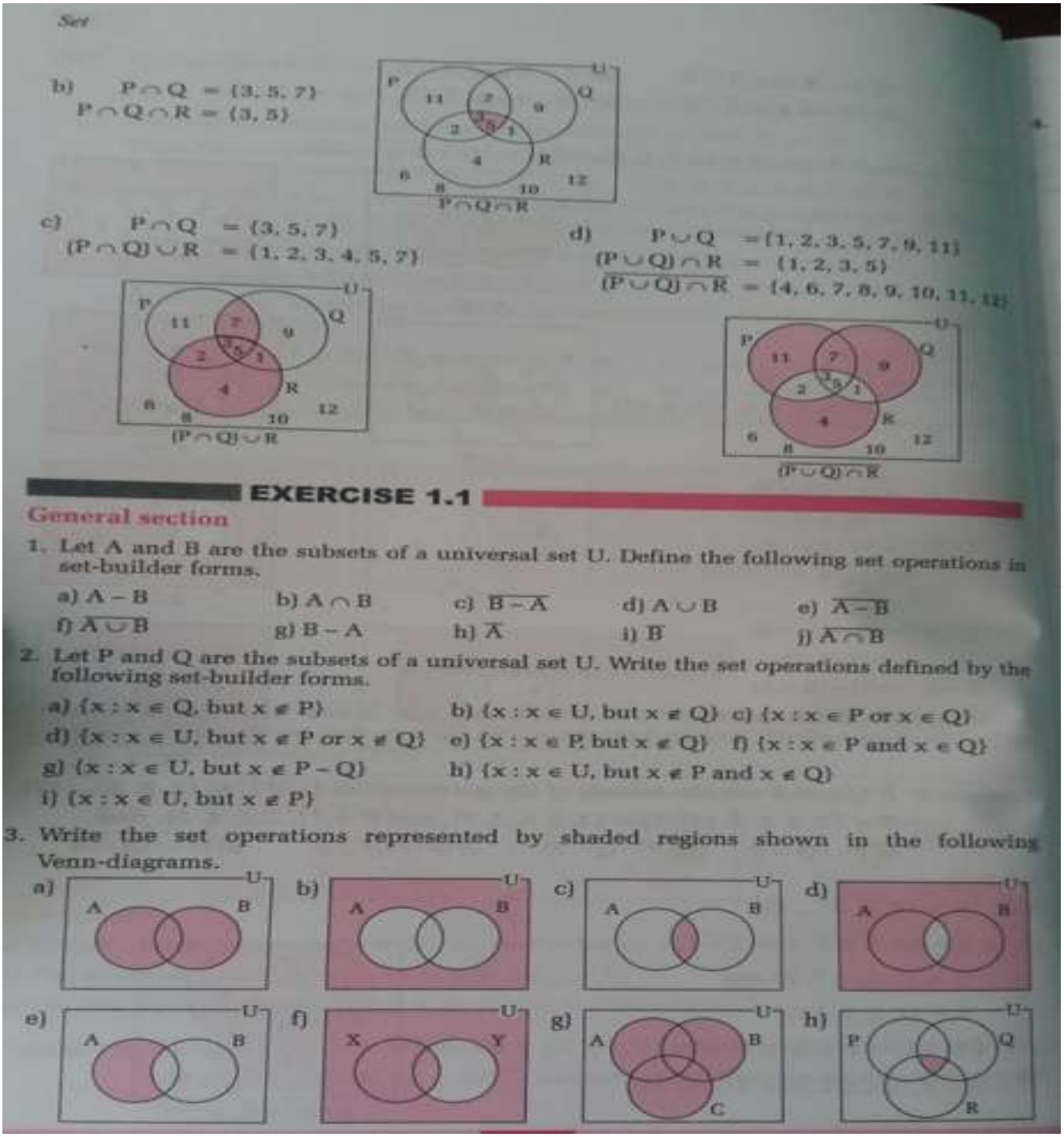
Assignment-2077

(Ashad 22, 2077, Monday)

Class: Nine Date:- _____ Name:- _____

Subject- Mathematics

Source: photo of exercise has given below.



Set

b) $P \cap Q = \{3, 5, 7\}$
$P \cap Q \cap R = \{3, 5\}$

$P \cap Q \cap R$

c) $P \cap Q = \{3, 5, 7\}$
$(P \cap Q) \cup R = \{1, 2, 3, 4, 5, 7\}$

$(P \cap Q) \cup R$

d) $P \cup Q = \{1, 2, 3, 5, 7, 9, 11\}$
$(P \cup Q) \cap R = \{1, 2, 3, 5\}$
$\overline{(P \cup Q) \cap R} = \{4, 6, 7, 8, 9, 10, 11, 12\}$

$\overline{(P \cup Q) \cap R}$

EXERCISE 1.1

General section

1. Let A and B are the subsets of a universal set U. Define the following set operations in set-builder forms.

a) $A - B$ b) $A \cap B$ c) $\overline{B - A}$ d) $A \cup B$ e) $\overline{A - B}$
f) $\overline{A \cup B}$ g) $B - A$ h) $\overline{A}$ i) $\overline{B}$ j) $\overline{A \cap B}$

2. Let P and Q are the subsets of a universal set U. Write the set operations defined by the following set-builder forms.

a) $\{x : x \in Q, \text{ but } x \notin P\}$ b) $\{x : x \in U, \text{ but } x \notin Q\}$ c) $\{x : x \in P \text{ or } x \in Q\}$
d) $\{x : x \in U, \text{ but } x \notin P \text{ or } x \notin Q\}$ e) $\{x : x \in P, \text{ but } x \notin Q\}$ f) $\{x : x \in P \text{ and } x \in Q\}$
g) $\{x : x \in U, \text{ but } x \notin P - Q\}$ h) $\{x : x \in U, \text{ but } x \notin P \text{ and } x \notin Q\}$
i) $\{x : x \in U, \text{ but } x \notin P\}$

3. Write the set operations represented by shaded regions shown in the following Venn-diagrams.

a) b) c) d)

e) f) g) h)

Work: complete exercise 1.1

Do your work neatly

Subject- Computer

Answer the following questions:

a) What is digital computer?
b) What is analog computer? Give its examples.
c) What is hybrid computer? Give its examples.
d) Write the features of fourth generation of computer.
e) What is super computer? List the applications (uses) of super computer.

Subject –Social Studies

1. Only reading, writing and mathematical calculation cannot denote exact literacy. Do you agree? Write your opinion.

Subject- Science

1. Write the molecular formula of the following.

i. Sodium chloride ii. Calcium chloride iii. Magnesium oxide

iv. Potassium oxide v. Sodium oxide vi. Aluminium oxide

2. What is electrovalent compound? How is ionic bond formed?
3. Explain the formation of positive and negative ion.
4. Write the valency with symbol of first 20 elements.

The End.