Question 1

5 pts

Consider three sets A,B and C.

A denotes the set of students who likes to play football

B denotes the set of students who likes to play cricket

C denotes the set of students who likes to play tennis

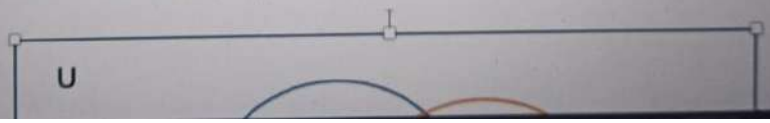
Venn diagram is given below showing the logical relationship between these three sets

Answer the following questions

a)Find the number of students who prefer to play football,cricket as well as tennis.

b)Find the number of students who prefer to play both football and tennis.

c) Find the number of students who does not prefer to play football.



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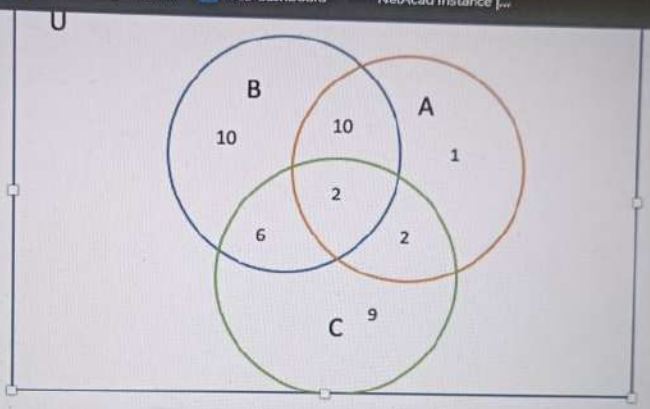

- a) 40 b) 30 c) 39
- a) 40 b) 30 c) 14
- a) 2 b) 4 c) 14
- a) 2 b) 4 c) 25
- none of the options

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Question 2

5 pts

In a semester ,each student take atleast one elective out of three electives. Elective subjects are NATURAL LANGUAGE PROCESSING(NLP) , MACHINE LEARNING(ML) and BIOINFORMATICS(BI).

The table below shows the enrollment details of the students in the above mentioned courses.

Find the total number of students in the class?

Course	Number of Students
NLP	90
ML	70
BI	70
NLP and ML	30
ML and BI	30
NLP and BI	40

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ML	70
BI	70
NLP and ML	30
ML and BI	30
NLP and BI	40
NLP,ML and BI	20

- 350
- 150
- 200
- 230
- none of the options

35 Minutes, 44

Question 3

1 pts

What does $\exists x(x < 0)$ means?

- every number is less than zero
- some numbers are equal to zero
- there is a number less than zero
- other

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Question 4

1 pts

$\neg\forall x\ P(x)$ is equivalent to _____. Chose to correct from the following.

a) $\neg\exists x\ P(x)$

b) $\forall x\ \neg P(x)$

c) $\exists x\ \neg P(x)$

d) other

- ○ a
- ○ b
- ◉ c
- ○ d

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