

**M.SC. MATHEMATICS
FOURTH SEMESTER
MATHEMATICS & COMMUNITY LIFE
MSM – 405 [CCEC]
[USE OMR FOR OBJECTIVE PART]**

**SET
A**

Duration: 1:30 hrs.

Full Marks: 35

Time: 15mins.

(Objective)

Marks: 10

Choose the correct answer from the following:

1×10=10

- Which of the following is NOT a factor affecting community health?
 - Access to healthcare facilities
 - Education level
 - Economic status
 - Political ideology
- What is the importance of volunteering in a community?
 - It only benefits the volunteer.
 - It promotes a sense of belonging and unity.
 - It leads to financial gain for the volunteers.
 - It creates division and conflict within the community.
- Which of the following is NOT a characteristic of a healthy community?
 - Low crime rates
 - Accessible healthcare services
 - High unemployment rates
 - Clean environment
- Which of the following is NOT a type of triangle?
 - Isosceles
 - Equilateral
 - Quadrilateral
 - Scalene
- What is the formula for the area of a rectangle?
 - Length × Width
 - πr^2
 - $1/2 \times \text{Base} \times \text{Height}$
 - πd
- Which of the following is a prime number?
 - 6
 - 11
 - 15
 - 20
- What is the importance of community engagement?
 - It fosters isolation among community members.
 - It promotes unity and collaboration.
 - It encourages competition and division.
 - It has no impact on community well-being.

8. What role does education play in community development?
- a. It creates division within the community
 - b. It promotes ignorance and prejudice
 - c. It empowers individuals and contributes to overall progress
 - d. It has no impact on community well-being.
9. If a triangle has angles measuring 30° , 60° , and 90° , what type of triangle is it?
- a. Equilateral
 - b. Isosceles
 - c. Scalene
 - d. Right angle
10. What is the value of $3^2 + 4^2$?
- a. 5
 - b. 7
 - c. 9
 - d. 25

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(Descriptive)

Time : 1 hr. 15 mins.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

1. Write a brief notes on appreciation and understanding of Mathematics in Community life. 5

2. a. How will you explain the use of mathematics in community-physical movement. 5+5=10
b. Write a short note on involvement of mathematics in day to day life in culturally rich society.

3. a. Explain the uses of mathematics in Community Events and Festivals. 5+5=10
b. Write 5 points "What are the reasons why mathematics is important" in every bodies life.

4. a. Write a brief notes on Scope of enhancement of community life through conscious application of basic mathematical concepts and tools. 5+5=10
b. Mention the few programmers for the realization of mathematics enhancing community lifestyle.

5. How you will organizing literacy camps and discussion, by organizing mathematical competitions, quiz games, and puzzles among school students. 10

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