

TRIBHUVAN UNIVERSITY

2073

Bachelor / Education / 2nd Semester

Full Marks: 60

Math.Ed.426 Mathematics II

Time: 3 hrs.

Candidates are required to give answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt all questions

Group "B"

6 X 5 marks = 30

1. If $Z^3 = 1$, find all the values of Z .
2. Find the limit: $\lim_{x \rightarrow \infty} \frac{x^2 + 7x + 8}{8x^2 + 7x + 6}$.
3. Construct addition and multiplication table for $\mathbb{Z}_7 = \{0, 1, 2, 3, 4, 5, 6\}$ in modulo 7.
4. Find the length of perpendicular drawn from $(3, 4)$ to the line $4x + 5y - 7 = 0$.

OR

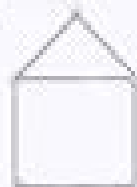
Determine the equation of hyperbola with a focus at $(6, 0)$ and a vertex at $(4, 0)$.

5. Construct the Eulerian graph satisfying the following conditions.
 - a. Graph has exactly 8 vertices
 - b. Graph is not a regular

OR

Test the following graph for Eulerian and Hamiltonian. Also give reason.

a.



b.



6. If $G = \{1, -1, i, j\}$ and $H = \{1, -1\}$. Then show that H is a subgroup of G under usual multiplication.

Group "C"

2 X 10 marks = 20

7. Find the local maxima and minima of the function $4x^3 - 15x^2 + 12x + 7$.

OR

Find the area of the parabola $y^2 = 4ax$ bounded by its latus rectum.

8. Consider the set of integers \mathbb{Z} . Test whether $(\mathbb{Z}, +, \cdot)$ forms a ring under usual addition and multiplication.



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