

**COURSE CODE : MTH401**  
**COURSE NAME : DISCRETE MATHEMATICS**

Time Allowed: 01:30 hrs

Max. Marks: 50

1. This paper contains 4 questions divided in two parts.
2. All questions are compulsory.
3. The marks assigned to each questions are shown at the end of each question in square brackets.
4. Attempt either (a) OR (b) from each question of Part B.
5. Answer all questions in serial order.
6. Do not write anything on the question paper except your registration number at the designated space.

**PART A**

Q1(a) Write difference equation and its solution if its auxiliary equation has roots  $+4i, -4i, 2, 2, 2$ . [2.5 Marks]

(b) Solve  $y_{k+2} - 3y_{k+1} + 2y_k = 0$ . [2.5 Marks]

**PART B**

Q2 (a) (i) Solve  $y_{k+2} + y_k = 0$  [10]

(ii) Is the set of functions  $k^2 - 2k, 3k, 4$  linearly independent? [5]

[15 Marks]

**OR**

(b) (i) Show that  $\Delta k^{(n)} = nk^{(n-1)}$ . [5]

(ii) Solve  $3y_{k+2} + 8y_{k+1} + 4y_k = 0$  [10]

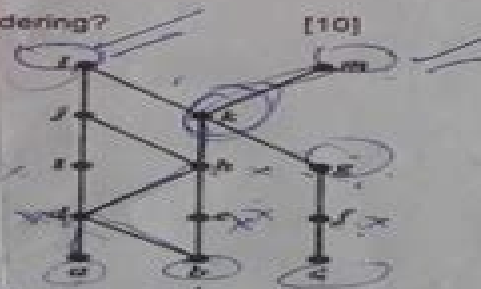
[15 Marks]

Q3 (a) Solve  $y_{k+2} + 2y_{k+1} + y_k = k^2 + 4k + 3$  [15 Marks]

(b) Solve  $y_{k+3} - 3y_{k+2} + 4y_{k+1} - 2y_k = 3 \cdot 4^{k-1}$  [15 Marks]

**OR**

Q4 (a) (i) Answer the following for the given partial ordering? [10]



- Find the maximal elements.  $a, b, c$
- Find the minimal elements.  $a, b, c$
- Is there a greatest element?  $\times$
- Is there a least element?  $\times$
- Find all upper bounds of  $\{a, b, c\}$ .
- Find the least upper bound of  $\{a, b, c\}$ , if it exists.  $K$
- Find all lower bounds of  $\{f, g, h\}$ .  $\times$
- Find the greatest lower bound of  $\{f, g, h\}$ , if it exists.  $\times$

$1, k, m$

(a) What do you mean by symmetric relation? Is a relation  $R = \{(a, b) / a \text{ is taller than } b\}$  on a set of all people symmetric? [5]

**OR**

(b) (i) Determine whether the relation  $R$  on the set of all integers is reflexive, symmetric, antisymmetric and transitive, where  $(x, y) \in R$  if and only if  $|x - y| < 1$ . [10]

(ii) Draw the Hasse diagram of the set  $S = \{1, 2, 3, 6, 8, 9, 12, 15, 24, 32, 48\}$  under divisibility? [5] [15 Marks]

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