

SEM-2359

M. A. / M. Sc. (Fourth Semester) Examination, June 2021

MATHEMATICS

Paper : Fifth (Optional)

(Jacobi Polynomial and H-Function-II)

Time Allowed : Three hours

Maximum Marks : 80

Note: Attempt all questions. All question carries equal marks.

1. Show that H-function is symmetric in pairs $(\alpha_1, \alpha_1) \dots (\alpha_n, \alpha_n)$.
2. Write the asymptotic expansion of $H(x, y)$.
3. Derive contiguous relations of H-function of two variables.
4. State and prove first summation formula for the H-functions of two variables.
5. Show that finite sum of product of H-function of variable of x and y is equal to their product individually.

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