



ALLAMA IQBAL OPEN UNIVERSITY
Semester Terminal Exam Autumn 2020

Program /level:	B.ED/Graduation	Maximum Marks	100
Title /Course Code	Mathematics-V (8674)	Pass marks	50

Instructions for Exams:

1. Attempt All Questions.
2. Write answers in your own words and avoid copying from an internet source or any book.
3. Be precise, avoid unnecessary details, answer to each question must be between 600-800 words.
4. Students are advised to upload their answer sheets/solutions on LMS portal as soon as they complete their answers and not to wait for 8:30 PM.
5. Submissions after due date & time will not be entertained. Attach undertaking with each course code which were allowed to attempt in Urdu.
6. If plagiarism found, Student may be declared fail.

Q. No.	Questions	Marks
1	a) Explain the concept of ordering of integers? Elaborate different approaches and properties of ordering of integers with the help of examples of your choice. b) Discuss in Euler Phi Function and solve any problem of your choice by using property that Euler Phi Function is multiplicative.	16+17
2	a) Discuss in detail Complexity of the Binary Search Tree Algorithms, elaborate your answer with examples. b) Explain Basic Logical Operations taking at least three examples (for each Operation) of your own choice.	16+17
3	a) Discuss in detail Derivative and Differential Operator by using examples. b) Explain Leibnitz's Rule by applying it in different problems (at least five).	17+17