COMSATS University Islamabad

Attock Campus

Department of Mathematics

Assignment # 02

Class: BSM-II
Subject: Discrete Mathematics
Instructor: Dr. Atiq ur Rehman

Due Date: 17-04-2021 (2:00PM)
Course Code: MTH211
Marks: 10

Instructions:

- Please name the PDF as **a2-mth211-xyz**, where xyz is last three digits of your registration number (e.g. if your registration number is **fa20-bsm-051**, then name the as **a2-mth211-051**) before submission.
- Similarity of a solution with other students may reduce your marks.
- Please make sure that the PDF is good before sending.
- Email PDF at **atiq+mth211@cuiatk.edu.pk** (any email address can be used for sending).

Question # 1

Consider the relation $R=\{(1,3),(1,4),(3,2),(3,3),(4,4)\}$ on set $A=\{1,2,3,4\}$.
Draw the directed graph of R.

Question # 2

(i) Give definition of the algorithm.

(ii) Use Hornet's method (stepwise) to calculate $f(5)$ if

$$f(x)=2x^3-7x^2+4x-15.$$

Academic Honesty Requirements:

You are encouraged to work with others in the completion of assignments, but it does not include copying and sharing your assignment to others. In sprit of academic honestly and current situation of COVID-19 pandemic, it is requested to write the following statement on your assignment.

- I have not shared or copy the assignment and I understand it well.