



# AJEENKYA D Y PATIL UNIVERSITY

## End Term Examination (December 2019)

School: School of Engineering  
Course: Algorithm Design and analysis

Program: BTECH (IT-DS)  
Course Code: CSC240

Semester: III

Max Marks: 30

Duration (mins) : 60 Min

- Note- 1. Figures to the right indicates full marks  
2. Attempt any three questions.

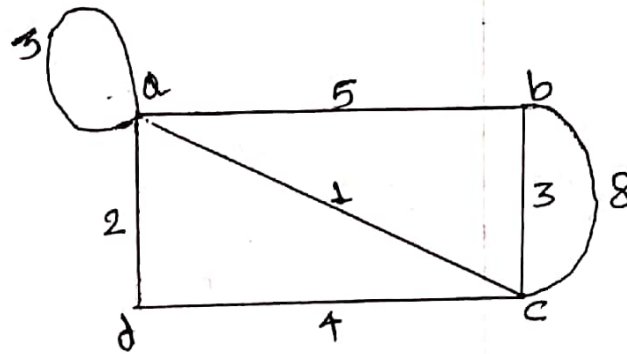
Q1) a) Sort the give array with the help of Radix sort and write its complexity. (5)

{ 33 ,44,22,19,45,08,42 }

b) Write a note on Asymptotic notation. (5)

Q2) a) What Is an Algorithm? (2)

b) Find shortest path using Floyd's Algorithm for following Graph. (8)

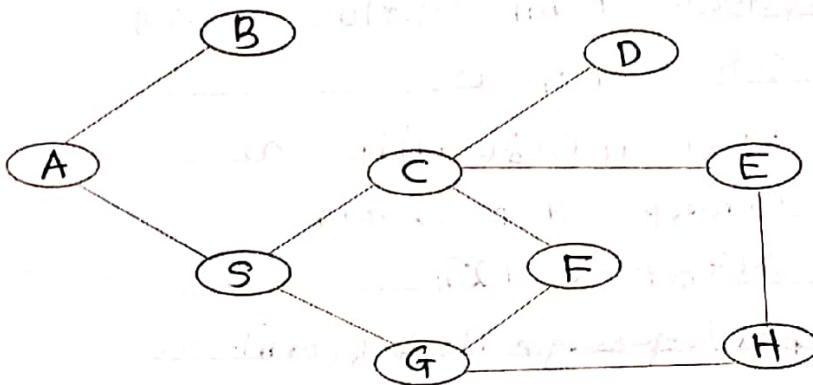


Q3) a) Explain Travelling Sales Man with example. (5)

b) Write algorithm for Binary Search. (5)

Q3) a) Define minimum spanning tree. (2)

c) Solve following graph through Breadth First Search (8)



Q5) a) What is Directed and undirected graph? (2)

b) List out characteristics of Algorithm (2)

c) Sort the give array with the help of Bucket sort and write its complexity. (6)

{ 22,45,12,8,10,6,72,81,33,18.50 }

\*\*\*\*\*ALL THE BEST\*\*\*\*\*