Pabna Cadet College

Second Term First Fortnightly Examination - 2021

Subject: Statistics

Class: XI

Time: 40 minutes Full Marks: 20

Answer all the questions

1. Length, width, and depth of a pond are 32m, 20m, and 3m, respectively. A machine is pumping water out of the pond at the rate 0.1 m3 per second.

a. What is the assumed shape of the pond from the given stem? Find the volume of the pond. 2

b. How much time is required to drain the pond completely? 4

c. What would the answer of (b) be, if the pond were cylindrical in shape, with diameter equal to length in stem? (You can use the formula in this link: click to see) 4