BRAC UNIVERSITY

STA201

ELEMENTS OF STATISTICS AND PROBABILITY

MIDTERM

Student Information:

Name: Md. Danial Islam ID: 20101534

SECTION: 01



Date: 23 November 2021

Date :..../..../..../

STA-201 > MID

$$10-20$$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-20$
 $10-2$

$$30-40$$
 \rightarrow 20.3505

$$(59-26) = \frac{33}{59} = 0.5593$$

$$20-30 \pm \frac{118-47}{128} \Rightarrow \frac{81}{128} \Rightarrow 0.6328$$

2

$$= \frac{3}{\frac{1}{20} + \frac{1}{20} + \frac{1}{2}}$$

$$\Rightarrow n \Rightarrow 20 |; 4/m/n$$

$$\frac{2}{\frac{1}{20} + \frac{1}{15}} = 17.14.29$$

$$\frac{3}{3} \left(\frac{3}{2} + \frac{3}{5} + \frac{3}{8} + 12 + \frac{4}{9} + \frac{3}{11} + \frac{2}{11} + \frac{2}{11} + \frac{3}{11} \right)$$

$$+\left(\frac{32}{2}\right)^6 = \left(\frac{264}{22}\right)^6 66$$

$$AM = \frac{2105}{66} = 31.8939$$

Sample vontance

$$S^{2} = \sum_{i=1}^{k} S_{i} \left(2i, -2i \right)^{2}$$

2 81.934又

= 3(31.8939 - 32)

@ √81.9347

=) -0.03516

$$P = \frac{\sum_{i=1}^{n} x_{i}^{2} - n x_{i}^{2}}{\sum_{i=1}^{n} \frac{x_{i}^{2} - n x_{i}^{2}}{\sum_{i=1}^{n} \frac{x_{i}^{2} - n x_{i}^{2}}}$$

0,9416

77.22088 77.2205