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2. Give short notes on

2.1 Plagiarism

(02 Marks)

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2.2 Academic writing

(02 Marks)

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2.3 References and bibliography

(02 Marks)

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2.4 Abstract publication (02 Marks)

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3. Compute the Standard Error of the Mean for the given data below. (06 Marks)

Sample	Mean	Standard deviation (SD)	Standard error of the Mean
1	0.250	0.022	
2	0.245	0.046	
3	0.218	0.032	

n=100

Student could apply the below formula to find out the standard error of the mean

$$SE_{\bar{x}} = \frac{s}{\sqrt{n}}$$

4. Below table present the patient's count for a village clinic. By using the given data calculate the probability of an event. (10 Marks)

Sex Diabetic status	Male (B)	Female (B')	Total
Diabetic (A)	15	8	23
Normal (A')	40	62	102
Sum	55	70	125

- a. $P(A)$
- b. $P(A')$
- c. $P(B)$
- d. $P(B')$
- e. $P(A \cap B)$

a.....

b.....

c.....

d.....

e.....

5. 5.1. What are the properties of normal distribution? (02 Marks)

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2.

Following table presets the weight of pregnant women in a maternity clinic who were selected for a community research. By using the given data answer the below questions.

Pregnant women number	1	2	3	4	5	6	7	8	9	10
Weight (in Kg)	90	98	120	98	90	65	90	100	75	85

- 2.1 The mean (04 Marks)
- 2.2 The mode (04 Marks)
- 2.3 Median (04 Marks)
- 2.4 Standard deviation (08 Marks)

Standard deviation

- For Ungrouped Data
- $s =$ sample std. dev.

$$s = \sqrt{\frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n-1}}$$

- $x_i =$ observed value
- $\bar{x} =$ average
- $n =$ no. of observed value

- or use

$$s = \sqrt{\frac{n \sum_{i=1}^n x_i^2 - \left(\sum_{i=1}^n x_i\right)^2}{n(n-1)}}$$

Date:15.10.2022
