

NMIMS Global Access
School for Continuing Education (NGA-SCE)
Course: Business Statistics for Decision Making
Internal Assignment Applicable for September 2022 Examination

Assignment Marks: 30

Instructions:

- *All Questions carry equal marks.*
- *All Questions are compulsory*
- *All answers to be explained in not more than 1000 words for question 1 and 2 and for question 3 in not more than 500 words for each subsection. Use relevant examples, illustrations as far as possible.*
- *All answers to be written individually. Discussion and group work is not advisable.*
- *Students are free to refer to any books/reference material/website/internet for attempting their assignments, but are not allowed to copy the matter as it is from the source of reference.*
- *Students should write the assignment in their own words. Copying of assignments from other students is not allowed*
- *Students should follow the following parameter for answering the assignment questions*

For Theoretical Answer	
Assessment Parameter	Weightage
Introduction	20%
Concepts and Application related to the question	60%
Conclusion	20%

For Numerical Answer	
Assessment Parameter	Weightage
Understanding and usage of the formula	20%
Procedure / Steps	60%
Correct Answer & Interpretation	20%

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1. Solve the following questions (with necessary steps in word) and write the interpretation.

Snowfalls occur randomly and independently over the course of winter in a Manali city. The average is one snowfall every 3 days.

1. What is the probability of five snowfalls in 2 weeks?

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2. Find the probability of a snowfall today?

(10 Marks)

2. From the Following data on Yearly subscription of GTPS Broadband, calculate the forecasted value of 2016 using 5-Year moving Average.

(10 Marks)

Yearly Subscription of GTPS-Broadband services								
	5 MBPS		10 MBPS		40 MBPS		60 MBPS	
2015	₹	433	₹	1,362	₹	3,325	₹	4,059
2015	₹	977	₹	1,049	₹	3,974	₹	4,145
2015	₹	35	₹	2,068	₹	3,598	₹	5,527
2015	₹	232	₹	1,874	₹	3,364	₹	5,710
2015	₹	787	₹	2,686	₹	3,145	₹	5,464

3. a. The following data represent the number of appointments made per 15-minute interval by telephone solicitation for a lawn-care company namely 'Amarjeet Finance'. Assume these are population data.

(5 Marks)

- 1) Calculate the variance.
- 2) Calculate the standard deviation.

No of appointments	Frequency of Occurrence
0-under 1	31
1-under 2	57
2-under 3	26
3-under 4	14
4-under 5	6
5-under 6	3

3. b. From the following Figure Calculate Cost of Living Index (aggregate expenditure method).

(5 Marks)

TABLE BELOW



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Items	2010	2015	2010	2015
	p0	p1	q0	q1
Wheat	10	15	2	3
Bread	8	17	1	2
Fruits	50	75	4	5
Vegetables	25	35	5	6
