


শুন্ম অর বিজনেম
Bangladesh Open University
MBA Program
Semester: 192 (2nd Level)

Last date of Submission: April 03, 2023

Instructions for 3rd Assignment Submission:

 <ol style="list-style-type: none">1. Assignments must be submitted on A4 size paper in own hand writing or in computer typing.2. Completed cover must be used on the top of each assignment as per the specimen cover page in the Semester Calendar.3. The softcopy of the assignment must be submitted to the coordinator <shelly.sob13@bou.ac.bd> of the Dhaka Study Center by email.4. Please mention clearly your ID, Course Code and Course Name in the subject line of email. Please create individual file for each course and send in one email.	<p style="text-align: center;">Special Assignment</p> <hr/> <p>Assignment -3 } 10</p>
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Questions:

1. Find $\frac{\partial Y}{\partial X_1}$ and $\frac{\partial Y}{\partial X_2}$ from the following functions:
 - i) $Y=10X_1X_2 + 17X_2$
 - ii) $Y=\text{Log}X_1X_2 + 11$
 - iii) $Y= \ln X_1^2+20$

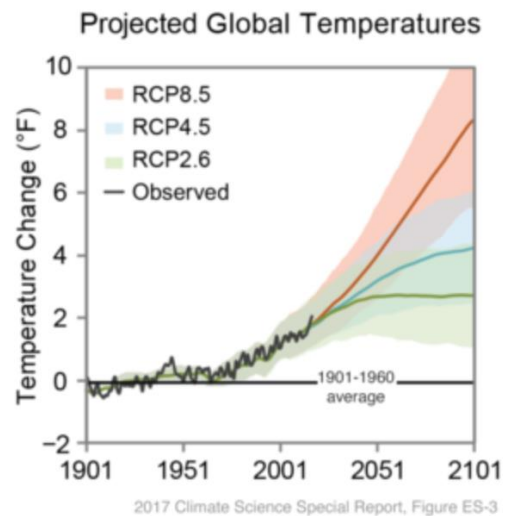
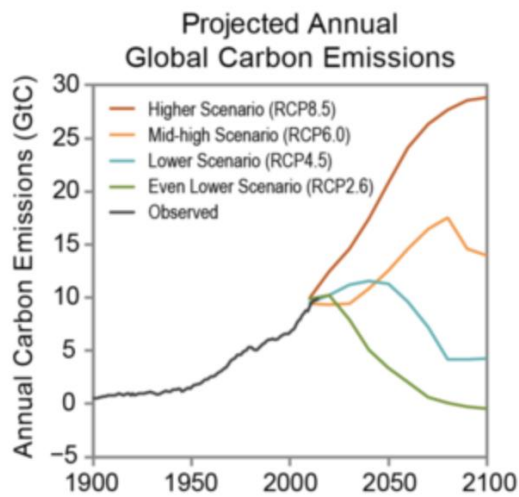
2. Test whether the following functions are increasing, decreasing and stationary at $X=2$:
 - i) $Y=3X^2-14X+5$
 - ii) $Y=X^3-7X^2+6X-2$
 - iii) $Y= X^4-6X^3+4X^2-13$

3. Suppose the cost function of a firm is $C=Q^3-5Q^2+60Q+100$. Find the following:
 - i) Marginal cost function
 - ii) Average cost function
 - iii) Average fixed cost
 - iv) Minimum average cost

Questions:

1. Explain how can statistics be used in the following cases:
 - i) Trends of Covid-19 infections in Bangladesh since March 2020
 - ii) Effect of Ukraine-Russia War on the electricity price in Bangladesh
 - iii) Remittance pattern in last 5 years

2. Look at the following two images showing the data on carbon emissions and global temperature. Explain the charts in terms of the trends in global warming.



Case: Ziaul Hoque Dilema

The new heir Ziaul Hoque of the Charlie Company speaks about organizational changes. He holds the M.B.A. degree from a Midwest University's school of management. He is currently assistant to the president. His father is chairman of board.

Hoque says the employees that you build an organization around your people. You forget the formalities of the scalar structures. The most important structure is that of communications. The line and staff are outdated concepts. The idea of system in organization is as impersonal as the idea of bureaucratic authority and as outdated as the notion of the divine right of kings.

Hoque said 'A network of authority, control, and communication stemming more from expertise and commitment to the total task is important rather than reliance on the omniscience of the chief executive or their authority of the managerial hierarchy. Things shall be decided by consensuses.

He farther said 'Communications are to be very open and extensive. The encouragement of a communication pattern and style that is diagonal, between people of different rank and across functional groups, and lateral that means across the organization at the same rank, as well as vertical. A mixed form of communication shall be applied based on situational analysis shall be applied with judicious mind. The style is also consultative and information-giving rather than command style'.

Hoque emphasized upon a high value on the expertise relevant to the commercial and technological milieu of the organization. A team leadership style, with an emphasis on high participation and considerable attention to interpersonal, group and inter-group processes. One-to-one interaction is frequent but systematic attention is paid to bringing the relevant people together to work on the matters of mutual interdependence and concern.

Discussion Questions

1. On what form of organization, Mr. Ziaul Hoque was talking about?
2. How do you rate Hoque's change appeal?

Professor Dr. Muhammad Mohiuddin's Speech

Professor Dr. Muhammad Mohiuddin in the class was discussing about the models of human resource management. He said that the human resource management practices such as job redesign, problem-solving groups, information sharing, participation and empowerment, team working, and minimal status differences will enhance performance by building employee commitment and its emphasis on the role of employees' knowledge and skill acquisition. People would be oriented to the high commitment to their jobs just to solidify with the organizational culture and to be a part of the organization. They love the organization and work for the organization. Today's competitive environment does not want to good performance but a committed performer, Dr. Mohiuddin said.

Discussion Questions

About what model, Professor Dr. Muhammad Mohiuddin was talking? Elaborate your view.

Question:

Describe the prospective impact of the Padma Bridge on the following economic variables:

- 1.1 Price of Hilsa Fish
- 1.2 Average income of the people
- 1.3 Employment opportunities

We know the economies of the world have been affected differently due to the outbreak of Covid and the Ukraine-Russia War. Write a brief story about the impact of the aforementioned global crises on Bangladesh Economy.