

BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI

SECOND SEMESTER 2023-24

Mid-Semester Exam (Closed Book)

Course No. : **ECON F215**

Course Title : **COMPUTATIONAL METHODS FOR ECONOMICS**

Date : **14/03/2024**

Max. Marks : **30**

Duration : **90 Minutes**

Weightage : **30%**

Instructions:

1. All the questions are compulsory. All parts of the questions should be answered sequentially and together.
2. Show the necessary calculations wherever required. Please use a pen only while answering the question and drawing the graphs.
3. Overwritten/ambiguous answers will not be evaluated.

Q1. Let the random walk model with drift and trend as:

[6M]

$$Y_t = \beta_1 + \beta_2 t + \beta_3 Y_{t-1} + \mu_t \quad (1)$$

Given the above information, answer the following questions:

- i. Find the mean of equation (1).
- ii. Show that the variance of equation (1) is not constant.
- iii. Is the co-variance of equation(1) is not time invariant. If yes, then proof it.
- iv. Is equation (1) stationary? If yes/no, why?

Q2. Let the moving average MA(2) process as:

[6M]

$$Y_t = \alpha + \epsilon_t + \theta_1 \epsilon_{t-1} + \theta_2 \epsilon_{t-2} \quad (2)$$

Given the above information, answer the following questions.

- i. Find the autocorrelation function of the model (2).
- ii. Find the autocorrelation function for the error term.
- iii. If the MA(4) process is

$$Y_t = \epsilon_t - 0.6\epsilon_t + 0.3\epsilon_{t-2} - 0.5\epsilon_{t-3} + 0.5\epsilon_{t-4}$$

then what is the autocorrelation function of order one and the autocorrelation function of order two?

Q3. Let the market model is

[6M]

$$Q_d = a - bP_t \text{ and } Q_s = -c + dP_t$$

Where, Q_d and Q_s are the quantity demand and quantity supply respectively. P_t is the price that depends on time. Given this information, answer the following questions:

- i. Find the value of P_{t-1} .
- ii. Find the time path of P .
- iii. Explain whether the solution is stable or explosive and Why?

Q4. Let the given data set be as follows

[6M]

Time	2020	2021	2022
GDP (In crore)	2	5	6

14 F215 Paper

Professor Andrew Lambert



14 F215 Paper:

Index, The Papers of the Continental Congress, 1774-1789, 1978 Parliamentary Papers Great Britain. Parliament. House of Commons, 1856 **Technologic Papers of the Bureau of Standards** United States. Bureau of Standards, 1928

Index, The Papers of the Continental Congress, 1774-1789: Chronology, 1978 *Index, The Papers of the Continental Congress, 1774-1789: East Whiteland - Leacraft, G*, 1978 **Collected papers** Albert Mann, 1925 **The Crimean War** Andrew Lambert, 2016-03-16

In contrast to every other book about the conflict Andrew Lambert's ground breaking study *The Crimean War British Grand Strategy against Russia 1853-1856* is neither an operational history of the armies in the Crimea nor a study of the diplomacy of the conflict. The core concern is with grand strategy: the development and implementation of national policy and strategy. The key concepts are strategic, derived from the works of Carl von Clausewitz and Sir Julian Corbett, and the main focus is on naval not military operations. This original approach rejected the Continentalist orthodoxy that dominated contemporary writing about the history of war, reflecting an era when British security policy was dominated by the Inner German Frontier, the British Army of the Rhine and Air Force Germany. Originally published in 1990, the book appeared just as the Cold War ended; the strategic landscape for Britain began shifting away from the continent and new commitments were emerging that heralded a return to maritime strategy as adumbrated in the defence policy papers of the 1990s. With a new introduction that contextualises the 1990 text and situates it in the developing historiography of the Crimean War, the new edition makes this essential book available to a new generation of scholars.

Index, The Papers of the Continental Congress, 1774-1789: Quack - Zwolle, 1978 **The Crimean War** Professor Andrew Lambert, 2013-07-28

In contrast to every other book about the conflict Andrew Lambert's ground breaking study *The Crimean War British Grand Strategy against Russia 1853-1856* is neither an operational history of the armies in the Crimea nor a study of the diplomacy of the conflict. The core concern is with grand strategy: the development and implementation of national policy and strategy. The key concepts are strategic, derived from the works of Carl von Clausewitz and Sir Julian Corbett, and the main focus is on naval not military operations. This original approach rejected the Continentalist orthodoxy that dominated contemporary writing about the history of war, reflecting an era when British security policy was dominated by the Inner German Frontier, the British Army of the Rhine and Air Force Germany. Originally published in 1990, the book appeared just as the Cold War ended; the strategic landscape for Britain began shifting away from the continent and new commitments were emerging that heralded a return to maritime strategy as adumbrated in the defence policy papers of the 1990s. With a new introduction that contextualises the 1990 text and situates it in the developing historiography of the Crimean War, the new edition makes this essential book available to a new generation of scholars.

Index, The Papers of the Continental Congress, 1774-1789: Leacraft, W. - Pyttis, 1978

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