Research Methodology and Techniques of Data Analysis

C1

1. What is research? Describe the various classifications of research methods.
2. What is a sample? Explain the probability and non-probability sampling methods in detail.
3. Describe the steps involved in research.

C2

1. Explain the steps of data processing.
2. Discuss on various tests for testing the mean/averages.
3. Discuss on the tests for comparing the variances of estimates.

References: [Please refer to the Latest Editions]

1. Anderson, Sweeney and Willams, (2012) *Statistics for Business and Economics*, Thomson South Western, US.
2. Hair, Anderson, Tatham and Black (2009) *Multivariate Data Analysis*, Pearson Education, Singapore
3. Bryman Alan, (2012) *Social Research Methods*, Oxford University Press, Oxford.
4. Kothari C.R., (2014) *Research Methodology*, New Age International Publication, New Delhi.
5. Krishnawamy O.R. and Ranghanathan, M., (2011) *Methodology of Research in Social Sciences*, Himalaya Publishing House, Bangalore.
6. Kurian C.T. (1984) *Research Methodology in Economics*, Institute of Development Studies, Madras.
7. Majumdar P.K., (2011) *Research Methods in Social Science*, Viva Books Private Limited, New Delhi.
8. Robert, A. Day, (2011) *How to Write and Publish a Scientific Paper*, Cambridge University Press, Great Britain.

Public Economics: Theory and Policy

C 1

1. Briefly explain Musgrave's views on principle of maximum social advantage.
2. Discuss positive and negative externalities with examples.
3. Elucidate social production possibility curve.

C 2

1. Explain cost benefit analysis and debt management.
2. What is taxation? Explain the structure and principles taxation.
3. Discuss about objectives and role of fiscal policy is an economy.

Text Books: [Please refer to the Latest Editions]

1. Anderson John E, (2003) *Public Finance Principles and Policy*, Houghton Mifflin Company, Boston, USA.
2. Hyman David N, (2013) *Public Finance - A Contemporary Application of Theory to Policy*, Thomson South-Western, Ohio, USA.

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3. Ulbrich Holley, (2011) *Public Finance - In Theory and Practice,* Thomson South-Western, Ohio, United States of America.

References: [Please refer to the Latest Editions]
1. Buchanan J.M, (1970) *The Public Finance,* Richard D. Irwin, Homewood.
2. Musgrave R.A and P.A. Musgrave (1989) *Public Finance in Theory and Practice,* McGraw-Hill Kogakusha, Tokyo.
3. Stiglitz J.E, (2015) *Economics of Public Sector,* Norton, New York.
4. Tyagi B.P, (2016) *Public Finance,* Jaiprakashnath and Company, Meerut, India.

International Trade: Theory and Policy

C1

1. Briefly explain the classical theories of international trade.
2. Critically examine Heckscher-Ohlin Theorem.
3. Explain partial and general equilibrium with the help of offer curves.

C2

1. What are trade barriers? Explain various types of trade barriers.
2. Discuss on economic integration with examples.
3. Discuss in detail on WTO.

Text Books: [Please refer to the Latest Editions]

1. Dominick Salvatore, (2014) *International Economics,* Macmillan Publishing Company, New York.
2. Kindleberger C P, (2000) *International Economics,* R.D Irwin, Home Wood, Illinois, USA.
3. Peter H Lindert and Thomas A Pugel, (2000) *International Economics,* Irwin, Chicago.

References: [Please refer to the Latest Editions]

1. Bardhan P K, (1970) *Economic Growth, Development and Foreign Trade,* Willy Int. New York, USA.
2. Mannur H G, (1999) *International Economics,* Vikas Publishing House Pvt. Ltd, New Delhi.
3. Mithani D M, (2015) *International Economics,* Himalaya Publishing House, Mumbai.

Theory of Econometrics

C 1

1. Discuss on Sample Regression Function, Population Regression Function and the significance of error term.
2. Explain the assumptions of Classical Linear Regression Model.
3. What are OLS estimators? Derive the OLS estimators for regression coefficients in a simple regression model.

C2

1. Describe the nature, causes, consequences, detection and remedial measures of Heteroscedasticity.
2. What are dummy variables? Explain the types and uses of dummy variable models.
3. Write note on: Identification of Simultaneous equations & Rank and Order conditions

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References: [Please refer to the Latest Editions]

4. Damodar N Gujarati, (2017) *Basic Econometrics*, McGraw Hill, International Student Edition.
5. Damodar N Gujarati, (2011) *Econometrics by Example,* Palgrave Macmillan, United Kingdom.
6. Ghosh Sukesh K, (1991) *Econometrics- Theory and Applications*, Prentice Hall Private Ltd., New Delhi.
7. Koutsoyiannis A., (2001) *Theory of Econometrics,* The Macmillan Press Ltd., London.
8.

Environmental Economics

C1

1. Define Environmental Economics. Explain its scope.
2. Explain the divergence between social and private costs in the context of environmental pollution.
3. Explain Coase Theorem. Discuss on Pigouvian versus Coasian Solution.

C2

1. Explain the causes and consequences of various types of pollution.
2. Describe the various techniques of environmental valuation.
3. Discuss on the important environmental problems in India along with policy measures.

References: [Please refer to the Latest Editions]

1. Arrow K.J and Scitovsky T, (1969) *Readings in Welfare Economics*, Richard Irwin inc.,
2. Barry C Field, (2012) *Environmental Economics*, McGraw Hill. New Delhi.
3. Barry C. Field, (2010) *Environmental Economics - An Introduction*, The McGraw-Hill Co., New York.
4. Bromely D.W. (ed) (1995) *Handbook of Environmental Economics*, Blackwell.
5. Cernea Michael (ed) (1991) *Putting People First,* Oxford University Press, New Delhi.
6. Charles D Kolstad, (2010) *Environmental Economics,* Oxford, New Delhi.
7. Coase R.H., (1962) "The Problem of Social Cost" in Breit & Hochman (ed) *Readings in Microeconomics*, Rinehart and Winston, inc.,
8. Garg M R, Bansil V K and Tiwana N.S. , (1995) *Environmental Pollution and Protection*, Deep and Deep Publishers, New Delhi.
9. Hanley N, J.F.Shogren & B.White (1997) *Environmental Economics in Theory & Practice*, Macmillan, NY.
10. Mahajan V.S., (1994) Environment *Protection: Challenges and Issues*, Deep and Deep Pub., New Delhi.
11. Nick Hanley and Others, (2006) *Environment Economics in Theory and Practice.* McMillan. Delhi.
12. Peter Stiling, (2002) *Ecology: Theories and Applications*, Prentice Hall New Delhi.
13. Rabindra N.Bhattacharya, (2001) *Environmental Economics*, Oxford University Press, New Delhi.
14. Ramprasad Sengupta,(2012) *Ecology and Economics an Approach to Sustainable Development*, Oxford University Press, New Delhi.
15. Shankar U, (ed) (2001) *Environmental Economics* (Readers in Economics) Oxford University Press.
16. Shankaran S., (2012) *Environmental Economics*, Margam Publications, Madras.
17. Sharma P D, (2012) *Ecology and Environment*, Rastogi Publications, Meerut.
18. World Bank, (1992) *World Development Report: Development and Environment,* Washington D.C.

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