Ph. D. PROGRAMME IN ECONOMICS (PHDEC)

Term-End Examination

December, 2023

REC-101 : RESEARCH METHODOLOGY

Time : 3 Hours   *Maximum Marks : 100*

Note : *Answer questions from each Section as per instructions given.*

Section—A

Note *: Attempt any **two** questions from this Section in about **700** words each.*

1. "The major difference between quantitative and qualitative research lies in understanding of beliefs and assumptions, the framework guiding research and methodological presentations." Critically examine this statement.   20

2. What is the difference between verification and falsification ? Critically examine the basic tenets of falsification approach argued by Karl Popper.   5+15

3. Distinguish between research design and research methods. Illustrate it in the context of undertaking an econometric study.   8+12

4. How has the knowledge been conceived in Indian wisdom tradition ? Give a comparative account of knowledge generation and knowledge validation between western philosophy and Indian knowledge tradition.   5+15

Section—B

Note : *Attempt any **five** questions from this Section in about **400** words each. Word limits will not apply in case of numerical questions.*

5. How will you make a choice of appropriate sampling method ? Illustrate with examples.   6+6

6. Distinguish between any ***three*** of the following :   4×3=12

    (i)   Parametric and Non-parametric test

    (ii) Abduction and Retroduction

    (iii) Realism and Constametism

    (iv) Ontology and Epistemology

    (v)   Perception and Conference

7. Why do we need to make estimates of national income and related macro aggregates at current prices and at constant prices ? Why is the base year changed from time to time ? Illustrate with examples from Indian economy.   4+4+4

8. Frame a research proposal of your choice conducting a study from interpretative perspective.   12

9. What do you mean by mixed methods research ? Discuss its philosophical foundation, rationale and the basic designs.   4+8

10. Distinguish between a linear and log-linear regression model. Illustrate with examples. 4+8

11. What is a scientific explanation ? Discuss the relevant models.   4+8

12. From the data for 46 districts of U. P. state, the following regression results have been obtained :   4+8

$$\log C = 4.30 - 1.34 \log P + \log 0.17 Y$$

$$Se = (0.91) \quad (0.32) \quad (0.20) \quad R^2 = 0.27$$

where C = cigarette consumption, packs per year

   P = real price per pack

   Y = real disposable income per capita

   (i)   What is the price elasticity of demand per cigarette with respect to price ?

   (ii) What is the income elasticity of demand for cigarette ?

   Discuss the policy implication of (i) and (ii) above.

13. Distinguish between case study method and sample survey method. Illustrate with examples the suitability of these methods.   4+8

REC–101