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## ENTRANCE EXAMINATION, 2018

M.Phil./Ph.D.

## STUDIES IN SCIENCE POLICY

[ Field of Study Code : SSPP (148) ]

Time Allowed : 3 hours

Maximum Marks : 80

- Note :** (i) This question paper has **two** Parts. Read the instructions given in each Part.  
(ii) All Parts are to be answered in the answer-script.  
(iii) The figures in the right-hand margin indicate marks for the questions.

## PART—A

( Answer all questions )

Choose the correct option :

2×16=32

1. In statistics, BLUE refers to
  - (a) Baltagi Lewis unbiased estimator
  - (b) Best linear unbiased estimate
  - (c) Baltagi Lewis unbiased estimate
  - (d) best linear unbiased estimator
2. Grounded theory is
  - (a) an inductive methodology
  - (b) a qualitative method
  - (c) Both (a) and (b)
  - (d) None of the above
3. Abductive reasoning is used widely by
  - (a) detective agencies
  - (b) physicians
  - (c) jurors
  - (d) All of the above
4. In statistics, C. R. Rao is famous for
  - (a) Cramer-Rao upper bound
  - (b) Cramer-Rab distance
  - (c) Cramer-Rao lower bound
  - (d) None of the above

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[ P.T.O. ]

5. Scientometrics is a study of
- measuring and analysing science
  - measuring and analysing technology
  - measuring and analysing innovation
  - All of the above
6. Bibliometrics is statistical analysis of
- books
  - journal articles
  - newspaper articles
  - All of the above
7. Oslo manual refers to
- measurement of scientific and technological activities
  - measurement of R&D activities
  - measurement of human capital
  - measurement of productivity growth
8. Which of the following is a social scale?
- Likert type scale
  - Bogardus scale
  - Guttman scale
  - All of the above
9. What is ideographic theory?
- It accounts for the facts in a single case
  - It accounts for facts in many cases
  - It explains less about a lot
  - None of the above
10. Union Government has notified UIDAI to give legal shape to the Unique Identification Authority of India. Which of the following Acts has been framed under?
- Aadhar (Targeted Delivery of Financial and Other Subsidies, Benefits and Services) Act, 2015
  - Aadhar (Targeted Delivery of Fiscal and Other Subsidies, Benefits and Services) Act, 2016
  - Aadhar (Targeted Delivery of Fiscal and Other Subsidies, Benefits and Services) Act, 2015
  - Aadhar (Targeted Delivery of Financial and Other Subsidies, Benefits and Services) Act, 2016

11. 'Against method' has been authored by
- Karl Popper
  - Imre Lakatos
  - Paul Feyerabend
  - Thomas Kuhn
12. Which among the following is **not** used for measuring central tendency?
- Mean
  - Standard deviation
  - Median
  - All of the above
13. *t*-distribution is
- symmetric
  - positively skewed
  - negatively skewed
  - uniform
14. Which among the following is **not** correctly matched?
- NBRI—Lucknow
  - CDRI—Bangalore
  - NCL—Pune
  - NPL—Delhi
15. National Technology Day in India is celebrated on
- 11 May
  - 16 February
  - 10 May
  - 28 February
16. Which among the following is **not** a form of intellectual property?
- Trademark
  - Copyright
  - Knighthood
  - Geographical indications



**PART—B**

**Note :** This Part has **two** Sections.

**SECTION—1**

Answer any *four* of the following questions in maximum **500 words each** : **4×4=16**

**17.** Why are the ethical issues important in social research?

**18.** What is Cyber Crime?

**19.** What is radical innovation? Give two examples.

**20.** What is research design? Briefly describe its various types.

**21.** Discuss ethnography and its limitation in social science research.

**22.** Write a short note on 'responsible innovation'.

**SECTION—2**

Answer any *four* of the following questions in maximum **1000 words each** : **8×4=32**

**23.** Discuss the implications of 'use and throw' culture for Swachh Bharat Mission.

**24.** Critically analyze the major components of Science Technology Innovation Policy, 2013.

**25.** Discuss the process of conducting a 'systematic literature review'.

**26.** Do you think 'Degrowth' could be a relevant model of development in today's world? Illustrate.

**27.** What are the different techniques of sampling? Illustrate with examples.

**28.** Discuss the advantages and disadvantages of 'content analysis' methods in social research.

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