63/1 (SEM-6) DSE3/PHLHE6036

2023

PHILOSOPHY

Paper: PHLHE6036

(Philosophy of Science)

Full Marks: 80
Pass Marks: 32

Time: 3 hours

The figures in the margin indicate full marks for the questions

1. Choose the correct answer (any six):

1×6=6

- (a) What is the fallacy involved in inductive justification of induction?
- (i) Fallacy of arguing in a circle
- (ii) Fallacy of posy hoc ergo propter hoc
- (iii) Fallacy of single cause
- (iv) Fallacy of division
- (b) The conclusion of a scientific inductive argument is
- (i) certain
- (ii) probable
- (iii) observation
- (iv) experience

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(Turn Over)

- (c) proposed a model of scientific change? Among the following philosophers, who
- (i) Thomas S. Kuhn
- (iii) Karl Popper
- (iii) Paul K. Feyerabend
- (iv) David Hume
- (b) Which of the following philosophers does not accept necessary connection between cause and effect?
- (i) Hume and sowers thomas sitt assorts
- (ii) Bain novem special and at males
- (iii) Aristotle Pallora to Rollasiana
- (iv) Kuhn
- (e) Name a book written by Thomas Kuhn.
- (i) Patterns of Discovery
- (ii) The Structure Revolutions of Scientific
- (iii) Observation, Discovery and Scientific Change
- (iv) The Logic of Scientific Discovery

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- (f) What is the ground of matter of fact?
- (i) Reason
- (iii) Belief
- (iii) Faith
- (iv) Experience
- (g) 'Conjuncture and Refutation' is related to
- (i) T. Kuhn

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- (iii) K. Popper
- (iii) Hume
- (iv) Dilworth
- (h) 'Epistemological anarchism theory' related to
- (i) Feyeraband
- (iii) K. Popper
- (iii) Hanson
- (iv) Ladyman

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- of the philosophy of science? Who is regarded as the famous historian
- (i) T. Kuhn
- (ii) K. Popper
- (iii) Hume
- (iv) M. Norman
- 9 Which of the following books is written by Feyerabend?
- (i) The Structure Revolutions of Scientific
- (ii) Against Method
- (iii) A Treatise of Human Nature
- (iv) The Logic of Scientific Discovery
- 2 Briefly answer the following questions (any five): $2 \times 5 = 10$
- (a) What is paradigm shift?
- (b) What is pseudoscience?
- (c) Write the name of any two books written by David Hume.

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- What is the meaning of observation in philosophy?
- (e) Write the distinction between 'relations of David Hume. ideas' and 'matter of fact' according to
- (f) What is normal science?
- (8) Define scientific induction.
- Answer any six of the following questions: $5 \times 6 = 30$
- What is Popper? corroboration according to
- (b) Distinguish between falsifiability talsification. and
- (c) Discuss Karl Popper's the 'problem of demarcation'.
- (d) Write a note on falsifiability.
- Discuss Harman's theory of 'inference to the best explanation'.

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- (f) What does Karl Popper mean by the logic of scientific discovery? Explain in brief.
- (8) induction? Discuss. How does Hume explain the problem of
- (h) research programme. Discuss Lakatos' theory of scientific
- (i) and non-science. Elucidate the distinction between science
- Discuss Hume's notion of causality.
- 4 Answer any two of the following questions: 10×2=20
- (a) What is he suggest for it? Discuss. according to Popper? What solution does the problem of demarcation
- (b) Explain Kuhn's account of change and progress in science.
- (c) Why does Feyerabend want to defend society against science? Discuss.
- (d) What is the nature of reasonings concerning matter of fact? Discuss.

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in Answer any one of the following questions:

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- (a) What is the problem of induction in problem. account of Hume's response to this philosophy of science? Give a critical
- (b) Why does Popper regard the theories of scientific? Discuss in detail the scientific method according to him. Marx, Freud and Adler as being non-
- (c) Do you agree with Hanson observation is laden? Explain.