

**Ph.D. IN BIOCHEMISTRY (PHDBC)**

**Term-End Examination**

**June, 2022**

**RBC-001 : RESEARCH METHODOLOGY**

*Time : 3 hours*

*Maximum Marks : 100*

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**Note :** *Question no. 1 is compulsory. Attempt any four questions from questions no. 2 – 7.*

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1. Explain the following in 2 – 3 sentences :  $10 \times 2 = 20$
- (a) Data
  - (b) Bioethics
  - (c) Technical Report
  - (d) Genetic Engineering
  - (e) Plagiarism
  - (f) Germplasm
  - (g) Thesis
  - (h) Novelty
  - (i) Geographical Indications
  - (j) Literature Survey

- 2.** (a) “The task of defining the research problem often follows a sequential pattern.” Justify the statement. *10*
- (b) List the features of a good research design. *10*
- 3.** (a) Explain the principle of replication and principle of randomisation of experimental designs. *10*
- (b) How does “After-only with control design” differ from “Before-and-After with control design” ? *10*
- 4.** (a) Describe the completely randomised design of research. *10*
- (b) Differentiate between Cluster sampling and Multistage sampling. *10*
- 5.** Explain biohazard. Describe various ways for disposal of hazardous waste. *20*
- 6.** What are Intellectual Property Rights (IPRs) ? Mention any four legislations covering IPRs in India. *20*

**7. Write short notes on the following :**

*4×5=20*

- (a) Copyright
  - (b) Types of Patents
  - (c) LMO
  - (d) Role of RCGM and GEAC
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