

(6 Pages)

**Reg. No. :** .....

**Code No. : 6336**

**Sub. Code : PPHM 34**

M.Sc. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2021

Third Semester

Physics — Core

RESEARCH METHODOLOGY

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — ( $10 \times 1 = 10$  marks)

Answer ALL questions.

Choose the correct answers :

1. Who is regarded the father of scientific social surveys?

(a) Best

(b) Booth

(c) Darwin

(d) None of the above

2. All cause non sampling errors except
  - (a) Faulty tools of measurement
  - (b) Defect in data collection
  - (c) Not response
  - (d) Inadequate sample
3. In doing action research what is the usual sequence of steps?
  - (a) Reflect, observe, plan, act
  - (b) Plant, act, observe, reflect
  - (c) Act, observe, plan, reflect
  - (d) Presenting of workshop
4. The format of thesis writing is the same as in
  - (a) Preparation of a research paper
  - (b) Writing of seminar presentation
  - (c) A research dissertation
  - (d) Presenting of workshop
5. The first page of the research report is
  - (a) Appendix
  - (b) Bibliography
  - (c) Index
  - (d) Title page

6. An abstract is a
- (a) Synopsis
  - (b) Quotations
  - (c) Glossary
  - (d) Bibliography
7. What is a Pixel mask?
- (a) a string containing only 0's
  - (b) a string containing only 1's
  - (c) a string containing two 0's
  - (d) a string containing both 1's and 0's
8. Selecting text means, selecting
- (a) a word
  - (b) an entire sentence
  - (c) whole document
  - (d) any of the above
9. The full form to tar is —————
- (a) tap achiever
  - (b) tape achieve resolution
  - (c) tape achiever
  - (d) none of the above
10. Square roots are produced by the —————
- (a) Sqrt argument
  - (b) Sqrt
  - (c) \Sqrt argument
  - (d) \Sqrt

PART B — ( $5 \times 5 = 25$  marks)

Answer ALL questions, choosing either (a) or (b)

Each answer should not exceed 250 words.

11. (a) Give the importance of basic research.

Or

- (b) Distinguish between quantitative and qualitative research.

12. (a) How will you presenting the oral report in scientific seminar?

Or

- (b) Explain the preparing the working bibliography.

13. (a) Explain the general format of writing the thesis.

Or

- (b) Explain the page and chapter format in research.

14. (a) How will you adding text to the graph in origin?

Or

- (b) Explain the storing work sheet data in origin.

15. (a) Distinguish between Tex and LaTeX.

Or

- (b) Explain characters and control sequence in LaTeX.

PART C — ( $5 \times 8 = 40$  marks)

Answer ALL questions, choosing either (a) or (b)

Each answer should not exceed 600 words.

16. (a) How do you identify the literature review in research study?

Or

- (b) Explain the various stages of research in research methodology.

17. (a) What is research plan for thesis? Explain.

Or

- (b) Explain the defining and limitations of research study.

18. (a) Explain the planning the thesis in research methodology.

Or

- (b) Explain the general format and layout for writing the thesis.

19. (a) Explain the following :
- (i) Creating multiple layer graph in origin
  - (ii) Transforming column values.

Or

- (b) Explain the plotting a range of the work sheet data in origin.

20. (a) Explain the active characters and special symbols in text in LaTeX.

Or

- (b) Explain the producing simple documents using LaTeX.

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