



Sanjay Ghodawat University, Kolhapur
Established as State Private University under Govt. of Maharashtra. Act
No XL, 2017

2018-19

EXM/P/09/00

**Year and Program: 2018-19 M.
Sc. I (Physics, Chemistry, Maths.)**

School of Science

**Department: Physics,
Chemistry, Mathematics**

Course Code : REM 501

**Course Title : Research
Methodology-I**

Semester - I

Day and Date :

Saturday 08 DEC 18

End Semester Examination

Time: 10:30 am to 1:30 pm

Max Marks: 100

PRN/Exam Seat No.:

Answer Booklet No.:

Student's Signature:

Invigilator Sign:

Instructions:

- 1) All questions are compulsory.
- 2) **Attempt Q.1 within first 30 minutes.**
- 3) Each MCQ type question has four choices out of which only one is correct.
- 4) Tick mark (\checkmark) the correct alternative which should be answered in question paper itself and submit to the Jr. Supervisor.
- 5) If you tick more than one option it will not be evaluated.
- 6) Figures to the right indicate full marks.
- 7) Use **Blue ball pen** only.

| Q.1 | Tick the correct answers. (One mark each) | Marks | Bloom's Level | CO |
|-----|--|-------|---------------|-----|
| 01 | OPAC means: A) Open Public Access Catalog B) Oxford Private Account Catalog C) Oxalic Paper Acid Catalyst D) Online Public Access Catalog | 01 | L1 | CO2 |
| 02 | -----is a way to systematically solve the research problem by adopting appropriate research method. A) Research Method B) Research Methodology C) Review of Literature D) Hypothesis | 01 | L1 | CO1 |
| 03 | Which of the following is NOT a part of Research Process? A) Hypothesis B) Research Design C) Instrument Purchase D) Data Collection | 01 | L1 | CO1 |

- 04 -----is an entry of a research paper or book in the paper/report you are writing. 01 L1 CO2
- A) Hypothesis B) Citation
C) Citation Index D) Register
- 05 DOAJ stands for 01 L1 CO2
- A) Director of Asian Journals
B) Directory of Open Access Journals
C) Directory of Accounts Journals
D) Dictionary of Assessment and Justice
- 06 Index of actual citations of a particular research paper is called as 01 L1 CO2
- A) Citation B) Noting
C) Citation Index D) Directory
- 07 Which of the following is **NOT** a Citation Indexing Service 01 L1 CO2
- A) Web of Science B) Scopus
C) Indian Citation Index D) Nature
- 08 -----is a measure of frequency with which the average article in a journal has been cited in a particular year. 01 L1 CO2
- A) Citation
B) H-index
C) Citation Index
D) Impact Factor
- 09 Research should be empirical, means 01 L1 CO2
- A) Research should be based on Empire
B) Research should be based on experimental evidences
C) Research should be theoretical
D) Research should be subjective

- 10 A researcher according to Google Scholar Citations has H-index 04, it means: 01 L2 CO2
- A) That researcher has published 04 research papers
 B) Research papers of this researcher have been cited at least 04 times
- A) Only A is correct B) Only B is correct
 C) Both A & B are correct D) None of these is correct
- 11 Conceptual structure with which research would be conducted is called as: 01 L1 CO5
- A) Abstract B) Problem statement
 C) Research Design D) Working Hypothesis
- 12 National Digital Library is being developed at 01 L1 CO2
- A) Indian Institute of Technology Kharagpur
 B) INFLIBNET
 C) IIT Bombay
 D) National Digital Languages Office
- 13 Which of the following is the website to download free audio books: 01 L1 CO2
- A) <https://www.pdfdrive.com> B) <https://www.inflibnet.ac.in>
 C) <https://ndl.iitkgp.ac.in> D) <https://librivox.org/>
- 14 -----is one of the Inter University Centres established with the goal of addressing the needs of Higher Education through the use of powerful medium of Television. 01 L1 CO2
- A) The Consortium for Educational Communication (CEC)
 B) INFLIBNET
 C) National Digital Library
 D) YouTube
- 15 Which section of a journal article is provided in most online electronic databases? 01 L1 CO1
- A) Conclusion B) Results
 C) Introduction D) Abstract

- 16 Who invented the concept 'H-index'? 01 L1 CO2
 A) Edmond Halley B) Kristy Hawkins
 C) Jorge E. Hirsch D) Charles B. Hensley
- 17 A researcher has published 08 research papers which are cited by at least 08 times what would be the H index of that researcher? 01 L1 CO2
 A) 16 B) 32
 C) 08 D) 64
 Long form of 'NPTEL' is:
- 18 A) National Property Transaction Establishment Limited 01 L1 CO2
 B) National Programme on Technology Entertainment Learning
 C) National Programme on Technology Enabled Learning
 D) National Programme on Technology Enhanced Learning
- 19 Shodhganga is: 01 L1 CO2
 A) A digital repository of Indian theses and dissertations submitted to Indian universities.
 B) A digital repository of Indian and foreign theses and dissertations submitted to Indian and foreign universities.
 C) Government of India's project to clean river Ganga.
 D) Search for the origin of river Ganga.
- 20 Research is not 01 L1 CO1
 A) a systematic enquiry B) an accidental discovery
 C) Scientific process D) universal



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| | | Marks | Bloom's Level | CO |
|------------|---|--------------|--------------------------|-----------|
| Q.2 | Answer any Two. | | | |
| a) | Explain in Detail, the meaning, objectives and types of research. | 12 | L2 | CO1 |
| b) | Illustrate with suitable example the research process. | 12 | L2 | CO1 |
| c) | Comment on the research in India and the problems encountered by the researchers in India. | 12 | L3 | CO1 |
| Q3 | Attempt any Two. | | | |
| a) | Explain what is Research Problem? and state the techniques involved in defining research problem. | 12 | L2 | CO1 |
| b) | Justify the importance of Review of Literature and explain Print and Electronic sources to conduct Review of Literature. | 12 | L5 | CO1 |
| c) | Illustrate with suitable example the Citation, Citation Index and Impact Factor. | 12 | L2 | CO2 |
| Q4 | Answer any Two. | | | |
| a) | Explain H-Index with suitable example. | 08 | L1 | CO2 |
| b) | A journal published 675 articles in 2016, 872 articles in 2017, out of which 192 articles in 2016 and 177 articles in 2017 were cited. Calculate the impact factor of the journal. Write step-by-step answer. | 08 | L3 | CO2 |
| c) | List names of any four research journals related to your subject. Write names of editor and scope of any one of the journals. | 08 | L1 | CO2 |
| Q5 | Write short notes on any four. | | | |
| a) | Impact Factor | 04 | L1 | CO2 |
| b) | Citation and Citation Index | 04 | L1 | CO2 |
| c) | E-Journals | 04 | L1 | CO2 |
| d) | Criteria of Good Research | 04 | L2 | CO1 |
| e) | Importance of Research | 04 | L2 | CO1 |
| f) | Types of Research | 04 | L2 | CO1 |