

Solapur University, Solapur

Ph. D. Course Work

(W.E.F. June 2014)

Paper – I

**Research Methodology & Information
Communication Technology**

**(Total Marks 100) = (Part A = 50 Marks) + (Part B = 50
Marks)**

(Common for Faculty of Social Sciences)

Part- A

Marks 50

Unit 1. Introduction to Research:

Meaning, Nature and Scope of Research, Types of Research,
Qualities of Good Researchers.

Unit 2. Computer Application in Research:

Basic Components of Computer, Input-Output Devices,
Hardware and Software, Operating System, Application
Software, MS Word, MS Excel, MS Power Point, Photoshop,
PDF files, Statistical Packages for Social Sciences (SPSS)

Unit 3. Use of Internet in Research:

Definition of ICT, Internet, Website, WAN, LAN, Online
Publication, Impact Factor, E-Information, H-index, Citation
Index and E-submission, e-journal, e-reviews, GIS and GPS,
Graphics and Maps.

Part- B

Marks 50

Unit 4. A.I.H.C & Archaeological Research: Introduction, Nature
and Scope.

Unit 5. A) Research Design and Sample Design

B) Data Collection: –

i) Primary Methods :- Exploration (Use of Map and
Toposheets, Village to Village Survey, Use of Literature,
Scientific Methods, Photography and Measurements of objects).
Excavations (Trial Trenching or Sondages, Vertical excavations,
Horizontal, Quadrant, Open stripping, Step trench method).

ii) Secondary Method: Library method.

C) Data Analysis: Classification, Critical Examination, and Interpretation.

Unit 6. Thesis writing: Presentation of Data, Maps Photos, Tables, Footnotes, Report writing, Conclusion, Bibliography, Annexure.

References:(for Part-A)

1. Baily K.D.,1982, Methods of Social Research Free press, New York.
2. Bose Pradip Kumar, 1995: Research Methodology, New Delhi. ICSSR.
3. Kothari, C.R. (2010), Research Methodology, Vikas Publishing House, New Delhi.
4. Puch, Keith, 1986, The Introduction to Social Research, London, Sage.
5. Rajaram, V, (1996), Fundamentals of Computers, Prentice Hall of India, New Delhi.
6. Sanders, D. H. (1988), Computer today, McGraw Hill, New York.
7. Sinha, P. K. (1992), Computer Fundamentals, BPB Publications, New Delhi.

References:(for Part-B)

1. Dhavalikar M.K.: Puratattva Vidya.
2. Deo S.B.: Puratattva Vidya, Continental Prakashan, Pune.
3. Pande Jaynarayan : Puratattva Vimarsha.
4. Raman K.V.: Principles and Methods in Archaeology, Parthajan Publication Madras.
5. Rajan K.: Archaeological Principles and Methods.
6. Martlew Roger: Information Systems in Archaeology, Alan Sutton Publishing, Gloucester.
7. Gokhale Shobhana: Purabhilekh Vidya Continental Prakashan, Pune.
8. Dhavlikar M. K. : Prachin bhartiya Nankshstra,
9. Deglurkar G.B.: Temples and Sculptures of Maharashtra.
10. Brown Percy: Indian Architecture (Buddhist and Hindu, period) O.B. Tarporvala sons and Co. Bombay, 1976.
11. Joshi N.P.: Prachin Bhartiya Murti Shastra, Nagpur, 1975.
12. Gopinathrao T.A.: Elements of Hindu Iconography.