

BA-III Year
Skill Enhancement Course (SEC)
Code: BAM- S602
Application of Sciences in Archaeology

Semester-VI
Max. Marks -60
Time- 3 Hrs

Course Objectives

Students will extend their abilities to:

- Unravel various scientific disciplines applied in archaeological research.
- Understand the application of different methods being adopted for types of artifacts.
- Enhance their knowledge in geo-archaeological science.

Course Outcomes:

The student will be able to:

- CO1** Learn about the basic tools and techniques of various categories of artefacts.
- CO2** Comprehend their knowledge in the fields of various scientific branches which are useful for archaeological studies.
- CO3** Enhance their skill in the field archaeology.

Instructions:

The question paper shall consist of two sections (Sec.-A and Sec.-B). Sec.-A shall contain 10 short answer type questions of six marks each. Student shall be required to attempt any five questions in 150 words. Sec.-B shall contain 8 long answer type questions of ten marks each and student shall be required to attempt any four questions. Questions shall be uniformly distributed from the entire syllabus. The previous year paper/model paper can be used as a guideline and the following syllabus should be strictly followed while setting the question paper.

Course Contents


Unit-I	(15 Lect.)
<ul style="list-style-type: none">(a) Importance of Sciences in Archaeological Research.(b) Classification of Stone tools and Pottery.	
Unit-II	(16 Lect.)
<ul style="list-style-type: none">(a) Study of Archaeobotany and Palynology remains.(b) Scope and objectives of Archaeozoology and Palaeontology.(c) Classification of animal world and Mammalian osteology.	
Unit-III	(14 Lect.)
<ul style="list-style-type: none">(a) Study of Human osteology(b) Determination of Age, sex and demography(c) Paleopathology	
Unit-IV	(15 Lect.)
<ul style="list-style-type: none">(a) Importance of geo-archaeology.(b) Types of Rocks and Minerals.(c) Formation of river terraces.(d) Weathering of rocks.	



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References:

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2. Pandey, D.K., Basics of Earth Science.
3. Mahapatra, S., Basics of Geology.
4. Paddayya, K., Piaget, Scientific method and Archaeology.
5. Paddayya, K., Ecological Archaeology & the Ecology of Archaeology: The Archaeologist's viewpoint.
6. Singh, G., Geography of India.
7. Singh, I., Human Geography (Hindi)
8. Sharma, P., Human Geography the land.
9. Renfrew, C., and Bahn Paul, Archaeology: Theories Methods and Practice.
10. Katzenberg Anee & Saunders Shelley (ed), Biological Anthropology of the human skeleton.
11. Reitz, E.J. & Wing, E.S. , Zoo-archaeology.
12. Pearsall Deborah M., Paleoethnobotany: A handbook of procedures.
13. James, D., Hurlbit, Corndius, S. Klein, Cornells (eds), Manual of Mineralogy.
14. Hegde, K.T.M., An Introduction to Ancient Indian metallurgy.
15. Butzer, K., Archaeology as Human ecology
16. Shackley, Myra, Environmental Archaeology
17. Singh, R. P., Agriculture in Protohistoric India
18. Evan, J.C., An Introduction to Environmental Archaeology
19. Zeumer, E.F. Pleistocene Period
20. Zoological Survey of India report
21. Botanical Survey of India report
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23. Prakash, S., *Prachin Bharat me Rasayan ka Vikas.*
24. Yadav, Acchelal, *Prachin Bharat me Krishi.*
25. Majumdar, J.P., *Vanaspti Vigyan.*
26. Ojha, Ramprakash, *Puratattva Vigyan*, vol 1.
27. Shukla, B.R. K., *Manav Udvikas.*
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