



**SYLLABUS
OF
ANTHROPOLOGY COURSES**

UNDER

FACULTY OF LIFE SCIENCE

2020-2022

(w.e.f. July 2020)

Approved by Board of Studies in Anthropology

(08.01.2020)

CODE 461 & 462

School of Studies in Anthropology
Pt. Ravishankar Shukla University,
Raipur (C.G.) 492010

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Shahnavaz

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24/01/2020
8/1/2020

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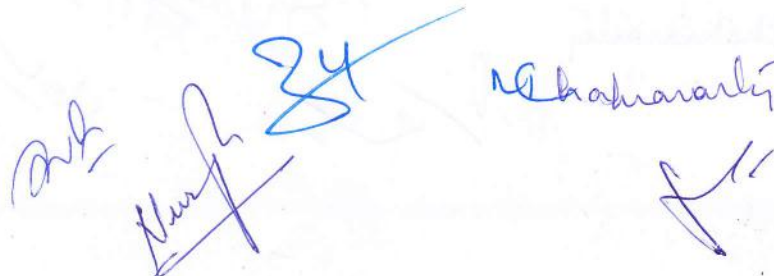
Pt. Ravishankar Shukla University, Raipur
M.A./M.Sc. in Anthropology
Scheme of Examination

July 2020-December 2020

| | <i>Paper No.</i> | <i>Title of Papers</i> | <i>Marks</i> | | <i>Credit</i> |
|-----------------------|------------------|---|-------------------|-------------------|---------------|
| | | | <i>(External)</i> | <i>(Internal)</i> | |
| FIRST Semester | I | Fundamental of Social/Cultural Anthropology | 80 | 20 | 4 |
| | II | Fundamental of Physical / Biological Anthropology | 80 | 20 | 4 |
| | III | Prehistoric Archaeology & Palaeo-Anthropology | 80 | 20 | 4 |
| | IV | Research Methods in Anthropology | 80 | 20 | 4 |
| | LC-I | Practicals in Craniology and Craniometry | 80 | 20 | 2 |
| | LC-II | Practicals in Osteology and Osteometry | 80 | 20 | 2 |
| | Total | | | 600 | 20 |

January 2021-June 2021

| | <i>Paper No.</i> | <i>Title of Papers</i> | <i>Marks</i> | | <i>Credit</i> |
|------------------------|------------------|--|-------------------|-------------------|---------------|
| | | | <i>(External)</i> | <i>(Internal)</i> | |
| Second Semester | I | Indian Archaeology | 80 | 20 | 4 |
| | II | Fundamentals of Human Genetics | 80 | 20 | 4 |
| | III | Medical Anthropology | 80 | 20 | 4 |
| | IV | Biostatistics and Computer Application | 80 | 20 | 4 |
| | LC-I | Practicals in Archaeology | 80 | 20 | 2 |
| | LC-II | Compulsory Field Work | 80 | 20 | 2 |
| | Total | | | 600 | 20 |



Pt. Ravishankar Shukla University, Raipur
M.A./M.Sc. in Anthropology
Scheme of Examination

July 2021-December 2021

Group-A : PHYSICAL ANTHROPOLOGY

| | Paper No. | Title of Papers | Marks | | Credit |
|-----------------------|--------------|--|------------|------------|--------|
| | | | (External) | (Internal) | |
| THIRD Semester | I | Applied Anthropology (Group- A & B) | 80 | 20 | 4 |
| | II | Advanced Human Biology | 80 | 20 | 4 |
| | III | Human Growth & Nutrition | 80 | 20 | 4 |
| | IV | Human Molecular Genetics | 80 | 20 | 4 |
| | LC-I | Practicals in Applied Biological Anthropology | 80 | 20 | 2 |
| | LC-II | Practicals in Human Growth, Nutrition and Physiology | 80 | 20 | 2 |
| | Total | | | 600 | |

July 2021-December 2021

Group-B : SOCIAL ANTHROPOLOGY

| | Paper No. | Title of Papers | Marks | | Credit |
|-----------------------|--------------|---|------------|------------|--------|
| | | | (External) | (Internal) | |
| THIRD Semester | I | Applied Anthropology (Group- A & B) | 80 | 20 | 4 |
| | II | Theory Methods in Social –Cultural Anthropology | 80 | 20 | 4 |
| | III | Indian Anthropology and Museology | 80 | 20 | 4 |
| | IV | Tribal Development | 80 | 20 | 4 |
| | LC-I | Practicals in Museology | 80 | 20 | 2 |
| | LC-II | Ethno-Museological Fieldwork Based Report and Seminar | 80 | 20 | 2 |
| | Total | | | 600 | |

Pt. Ravishankar Shukla University, Raipur
M.A./M.Sc. in Anthropology
Scheme of Examination

January 2022-June 2022

Group-A : PHYSICAL ANTHROPOLOGY

| | Paper No. | Title of Papers | Marks | | Credit |
|------------------------|--------------|----------------------------|------------|------------|-----------|
| | | | (External) | (Internal) | |
| <i>Fourth Semester</i> | I | Medical Genetics | 80 | 20 | 4 |
| | II | Forensic Anthropology | 80 | 20 | 4 |
| | III | Dissertations (external) | 200 | | 8 |
| | IV | Presentations/Viva-Voce*** | 100 | 100 | 4 |
| | Total | | | 600 | 20 |

January 2022-June 2022

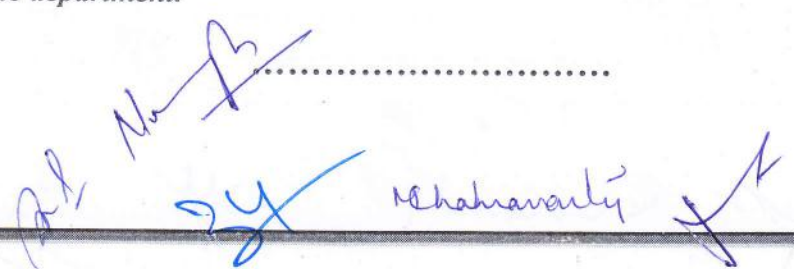
Group-B : SOCIAL ANTHROPOLOGY

| | Paper No. | Title of Papers | Marks | | Credit |
|------------------------|--------------|--|------------|------------|-----------|
| | | | (External) | (Internal) | |
| <i>Fourth Semester</i> | I | Disaster Management, Displacement & Rehabilitation | 80 | 20 | 4 |
| | II | Development Anthropology | 80 | 20 | 4 |
| | III | Dissertations (external) | 200 | | 8 |
| | IV | Presentations/Viva-Voce*** | 100 | 100 | 4 |
| | Total | | | 600 | 20 |

**Each student will be evaluated continuously throughout the semester, 20 Internal Marks for each Theory Paper will be based on class test (10 marks) & presentation (10 marks).*

*** A student of IV semester will have to submit a community based project work. The valuation of the project work will be carried out by an external examiner and the faculty members of the department.*

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**School of Studies in Anthropology
Pt. Ravishankar Shukla University, Raipur**

M.A./M.Sc. ANTHROPOLOGY

Semester – I

July 2020 - December 2020

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M.A./M.Sc. ANTHROPOLOGY

SEMESTER-I

PAPER I - FUNDAMENTALS OF SOCIAL/ CULTURAL ANTHROPOLOGY

MAX. Marks- 80

MIN. Marks - 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT – I

Anthropology and Social Anthropology:

- Meaning and Scope of Anthropology.
- Divisions of Anthropology.
- Scope of Social-Cultural Anthropology.
- Social-Cultural Anthropology and its relation with other social sciences, life sciences, medical sciences and humanities.

Culture and Institutions:

- Theory of Culture: attributes of Culture, culture traits, culture complex, culture area, integration of culture, paradoxes of culture.
- Some basic concepts: Civilization, Society, Social structure, Social Organization, Community, Social Institutions, Groups and Status & Role.

UNIT – II

Social Organizations:

- Family: 1. Typology 2. Residence 3. Functions.
- Marriage: 1. Typology 2. Mate selection 3. Cross-cousin 4. Sororate 5. Dowry and bride price.
- Kinship :
 1. Kin: consanguine , Affinal.
 2. Kinship terminology : classificatory and descriptive, Terms of reference and address.
 3. Kinship behavior: Joking and avoidance relationship.

4. Kinship system and its importance in Social structure, Descent Groups.
 5. Kinship terminology: Classificatory and Descriptive.
- Moiety and Phratry.
 - Social Stratification.
 - Status of women (Gender).
 - Tribe and Class.

UNIT – III

Economic organization:

- Property: Individual and Collective.
- Concept of Primitive communism.
- Concept of value in primitive economy.
- Stages of Economy: collection, hunting, fishing, pastoralism, Cultivation (Shifting cultivation and Settled Subsistence)
- Surplus and market economy.
- Systems of trade-exchange: Reciprocity, Redistribution, barter and markets.

Political organization:

- Law and social control.
- Concept of authority and leadership.
- Types of political organization: Band, Tribe, State, Kingship and chiefdom.
- Primitive law and Justice.
- Types of Punishment.
- Ethnicity and Nationality.

UNIT – IV

Religion and Magic:

- Anthropological approaches to the study of religion: Evolutionary, Psychological and Functional.
- Primitive Religion: Animism, Animatism, Bongalism, Totemism.
- Magic: function and types.
- Magico-religious functionaries: Shaman, Priest, Medicine man, Sorcerer, witch.
- Symbolism in religion and rituals.
- Religion, Magic and Science.

Arts:

- Art and Aesthetics: Forms of music, dance forms, musical instruments.
- Painting: Ritualistic and Symbolic.
- Artifacts: Carvings, Mould, Masks etc.

Human Language:

- Human Language: Origin and evolution of human language.
- Language, culture and society.

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Recommended Readings:

1. Barnouw, V. 1979. Anthropology: A General Introduction, The Dorsey Press, Illinois.
2. Holmes, L. D. Anthropology: An Introduction, The Ronald Press Company, New York.
3. Sharma and Sharma. 1997. Anthropology, Atlantic Publishers and Distributors, New Delhi.
4. Hunter & Whitten. The Study of Cultural Anthropology, Harper & Row Publishers, New York.
5. Moore, A. 1978. Cultural Anthropology, Harper & Row Publishers, New York.
6. Kaplan, D. & Manners, R. A. Culture Theory, Prentice Hall of India Private Ltd., New Delhi.
7. Herskovitz, M. J. Cultural Anthropology, Oxford & IBH Publishing Co., New Delhi.
8. Mair, L. 1965. An Introduction to Social Anthropology, Clarendon Press, Oxford.
9. Majumdar, D.N. & Madan, T. 1986. An Introduction to Social Anthropology, National Publishing House, New Delhi.
10. Mishra, U. S. Samajik Sanskritik Manavshastra, Palka Prakashan, Delhi.
11. Shrivastava, A. R. N. Samajik Manav Vigyan Vivechan (in Hindi), Madhya Pradesh Hindi Granth Academy, Bhopal.
12. Evans-Pritchard, Social Anthropology.
13. Honnigmann, J. Handbook of Social and Cultural Anthropology.
14. Fox, Robin. Kinship and Marriage.
15. Sahlins & Service. Evolution and Culture. The University of Michigan Press, Ann Arbor.
16. Barth, F. Ethnic Group and Boundaries.
17. Barnet, H.G. Innovation. The Basis of Culture Change.
18. Rogers E.M. & Schmacher, F.F. Communication of Innovation.
19. Rogers, E.M. Diffusion of Innovation.
20. Rad-cliffe Brown, A.R. Structure and Function in Primitive Society.
21. Harris, Marvin. Cultural Anthropology.
22. Malinowsky, B.K. Scientific Theory of Culture and Other Essay.
23. Foster, G.M. Tradition, Cultures and Impact of Technological Change.
24. Dalton, George. Tribal and Peasant Economics: Readings in Economic Anthropology.
25. Kluckhohn, C. Mirror for Man.
26. Herskovits, M.J. Man and His Works.
27. Ember and Ember, Anthropology
28. Nas, Manning. Primitive and Peasant Economic Systems
29. Bohannan, Paul. Social Anthropology
30. Jacob, Awsrem. General Anthropology
31. Levi Strauss, Elements of Kinship
32. Schumachr, E.F. Small is Beautiful
33. Evans- Pritchrd, E.E. Primitive Religion
34. Norbeck. Primitive Religion
35. Lowie, R.H. Primitive Social Organization
36. Lowie, R.H. Social Organization

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M.A./M.Sc. ANTHROPOLOGY

SEMESTER-I

PAPER II- FUNDAMENTALS OF PHYSICAL/ BIOLOGICAL ANTHROPOLOGY

MAX. Marks- 80

MIN. Marks - 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT-I

Physical Anthropology:

- History, Definition, Meaning and Scope of Physical Anthropology.
- Relationship of Physical Anthropology with Physical, Biological and Medical Sciences.
- History and Development of Physical Anthropology in India.
- New Physical Anthropology.

UNIT-II

Organic Evolution & Primate behavior:

- Theories of Organic Evolution: Lamarckism, Darwinism, Synthetic Theory, Neutral Theory of molecular evolution, concept of clad genesis and anagenesis.
- Man's place in Animal Kingdom.
- Primate behavior (With reference to Higher Primates).

UNIT-III

Comparative anatomy & Evolution:

- Comparative anatomy of Man and Apes.
- Hominid Evolution.
- Erect posture and Bipedalism.
- Evolution of Teeth, Chin, Foot and Pelvis.

UNIT-IV

Human Variation:

- Concept of Race
- Modern Human Variation : Typological Model, Population Model and Clinal Model; overview of Classification proposed by Blumenbach, Deniker, Hooton, Coon, Garn and Birdsell.
- Criteria of Racial classification- Skin, Hair and eye colour, Stature, Eyes , Lips and Ears, Face and Lower Jaw, Blood Groups, Dermatoglyphics.
- Distribution and Characteristics: Caucasoid, Negroid, Mongoloid.
- Racial classification of Indian Population –Risley, Guha. & S. S. Sarkar
- Causes of Human Variation.

Recommended Readings:

1. Comas, J. 1960. Manual of Physical Anthropology, Springfield, Charles C. Thomas.
2. Sarkar, R. M. 1976. Fundamentals of Physical Anthropology. Blackie (India).
3. Das, B. M. 1985. Outlines of Physical Anthropology, Kitab Mahal, New Delhi.
4. Shrivastav, A. R. N. 1994. Sharirik Manav Vigyan (in Hindi), Gyandeeprakashan, Allahabad.
5. Barnouw, V. 1979. Anthropology: A General Introduction, The Dorsey Press, Illinois.
6. Hooton, E. A. Up from the Ape, The Macmillan Co., New York.
7. Lasker, G.B. and Tyzzer, R.N. Physical Anthropology, Holt Rinechart & Winston, New York.
8. Shukla, B.R.K. and Rastogi, S. Physical Anthropology and Human Genetics: An Introduction, Palka Prakashan, Delhi.
9. Buettner-Janusch, J. Origins of Man, Wiley Eastern Pvt. Ltd. New Delhi.
10. Montagu, M.F.A. The Concept of Race, The Free Press, New York.
11. Montagu, M.F.A. An Introduction to Physical Anthropology, Charles C Thomas, Springfield
1. Illinois.
12. Harrison, G.A., Weiner, J.S., Tanner, J.M. and Barnicot, N.A. Human Biology: An Introduction to Human Evolution, Variation And Growth, Clarendon Press, Oxford.
13. Ashley, Montague. Concept of Race.
14. Backer, P.T. & Weiner (eds.). Biology of Human Adaptability.
15. M. Ember and Ember. Anthropology.
16. Harrison, G.A. and Boyce, J. The Structure of Human Population.
17. Sarkar S.S. Aboriginal races of India.
18. Sahlins and Service. Evolution and Culture.
19. Simpson, G.G. The Meaning of Evolution.
20. Williams B.J. Evolution and Human Origin

M.A. / M.SC. ANTHROPOLOGY

SEMESTER-I

PAPER III - PREHISTORIC ARCHAEOLOGY AND PALAEO-ANTHROPOLOGY

MAX. Marks- 80

MIN. Marks – 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT – I

- Introduction: Definition, Subject matter, Branches, Aims and Applications.
- Framework of Archaeological Cultures.
- Relationship with Other Branches of Anthropology, Earth Sciences, Physical sciences, Life Sciences and Social Sciences.

UNIT – II

- Geological Time Scale.
- Pleistocene Epoch: Glacial-interglacial; Pluvial-Inter-Pluvial Climatic Cycles, Impact on Cultural Development.
- Climatic Markers: Moraines, Terraces, Sea-level Changes, loess, Soil, Dune & Fossils.
- Tool Technology: Flaking (Primary & Secondary), Grinding and Polishing Techniques used during Stone Age.
- Dating Techniques:
 - Relative Dating: Stratigraphy, River Terraces, Raised Sea-Beaches, Typo-technology, Fluorine Dating, Pollen Dating.
 - Absolute dating: Radio-active Carbon, Potassium-Argon, Uranium- Thorium, Dendrochronology, Thermoluminescence, Fission-Track & Obsidian Hydration.

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UNIT – III

- Lower Palaeolithic of Europe: Distribution, Chronology, Stratigraphy, Assemblage, Abbevillian, Acheulian, Associated Human Fossils .
- Middle Palaeolithic of Europe: Distribution, Chronology, Stratigraphy, Assemblage, Traditions, Associated Human Fossils .
- Upper Palaeolithic of Europe: Perigordian, Aurignasian, Solutrean, Magdalenian; Prehistoric Art (Home Art and Cave Art).
- Mesolithic Culture of Europe: Azilian, Tardenoisean, Austerian, Maglamosean, Kitchen Midden, Campegnian.

UNIT – IV

- Australopithecus Species: Discoveries, Distribution, Chronology, Salient features, Phylogeny.
- Homo erectus: Discoveries, Distribution, Chronology, Salient features, Phylogeny.
- Homo sapiens neanderthalensis: Discoveries, Distribution, Chronology, Salient features, Phylogeny.
- Homo sapiens sapiens (Cro-Magnon, Chancelade, Grimaldi): Discoveries, Distribution, Chronology, Salient features, Phylogeny.

Recommended Readings:

1. A grawal, D.P. & M.G. Yadava. 1995. Dating the human past.
2. Bhattacharya, D.K. 1977. Palaeolithic Europe.
3. Bordes, F. 1968. The Old Stone age. Weidenfeld and Nicolson.
4. Burkitt, M.C. 1969. Old Stone Age: Study of Palaeolithic Times.
5. Campbell, B. C. 1979. Humankind emerging, II edition.
6. Clark, W. E. L. 1964. The Fossil Evidence for Human Evolution, The University of Chicago Press, Chicago.
7. Coles, J. M. & E. S. Higgs. The Archaeology of early man. Faber and Faber.
8. Grazioli, P. Paleolithic Art.
9. Howell, W. Mankind in the making.
10. Johanson, D & E. Maitland. 1981. Lucy- The beginnings of humankind.
11. Knudson, S.J. 1978. Culture in retrospect: An introduction to Archaeology.
12. Oakley, K.P. 1972. Man the tool maker
13. Roe, Derek 1970. Prehistory: An introduction.
14. Sankalia, H.D. 1964. Stone age tools: their techniques, names and probable functions, Pune, Deccan College.
15. Sankalia, H.D. 1974. Prehistory and Protohistory of Early India and Pakistan.
16. Allchin and Allchin, 1982. The rise of civilization in India and Pakistan, Select Book Service Syndicate, New Delhi.
17. Zeuner, F.E. Pleistocene Period.

18. Agrawal, D.P. The Archaeology of India, Curzon Press.
 19. Ashley, Montague. Physical Anthropology and Archaeology.
 20. Barmown, Victor. Physical Anthropology and Archaeology, Illinois, The Dorse Press HomeWood.
 21. Banerjee. Iron Age in India. Munshiram Manoharlal.
 22. Brothwell D. & Higgs E. (ed.). Science in Archaeology. Thames and Hudson.
 23. Budtzer, K.W. Environment and Archaeology.
 24. Clark, D.L. Analytical Archaeology. Methuen and Co. Ltd.
 25. Das, B.M. Outlines of Physical Anthropology. Kitab Mahal.
 26. James, J. Hester, Introduction to Archaeology. Holt, Rinehart and Winston.
 27. Michel, J.W., Dating Method in Archaeology. Seminar Press.
 28. Sakalia, H.D., New Archaeology – Its Scope and Application to India, Ethnographic and Folk Culture Society.
 29. Zeuner, F.E. Pleistocene Period. Hutchinson.
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M.A./M.SC. ANTHROPOLOGY

**SEMESTER-I
PAPER IV- RESEARCH METHODS IN ANTHROPOLOGY**

**MAX. Marks- 80
MIN. Marks - 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT – I

- Field work tradition in Anthropology: Covering all branches of Anthropology to gain holistic perspective.
- Social research and Social survey.
- Hypothesis: Sources, characteristics, importance and types of hypothesis.
- Methods: Logical, Historical, Comparative, Philosophical and Scientific method.
- Ethnographic method.
- Types of Research, Qualitative and Quantitative Research.
- Inductive and Deductive approaches to research.

UNIT – II

- Research design : Review of literature, aims & objectives, hypotheses, research questions, conceptual model, types of research design, evaluation research.
- Techniques of data collection- Primary data collection: Observation, Questionnaire, Interview, Schedule, Case study, Audio-visual recording, Geneology.
- Grounded Theory, Exploration and Excavation, Introduction to GIS.
- Secondary Data collection: Census, National Sample Survey, Models and Paradigms.
- Data collection: Choice of Suitable Technique.
- Participatory Methods: Rapid Rural Appraisal (RRA), Participatory Rural Appraisal (PRA), Rapid Participatory Appraisal (RPA), Focus Group.

UNIT – III

- Data: Definition and characteristics.

- Types of Data: Geographical, Chronological, Qualitative and Quantitative, Nominal, Ordinal, Ratio and Interval.
- Sources of Data: Primary and Secondary sources.
- Tabulation: General, Special purpose & Machine tabulation.
- Techniques of Analysis : Content analysis, Discourse analysis and Narratives.
- Analysis and Interpretation of data.
- Preparation of report, Dissertation and Scientific papers.
- Graphic and Diagrammatic presentation of data.

UNIT – IV

- Scope, utility and importance of statistics in Anthropology.
- Sampling: Types of Random and Non random sampling
- Measures of Central Tendency- Mean, Mode, Median & dispersion.
- Variables: Univariate, Bivariate and Multivariate analysis.
- Scaling techniques.

Recommended Readings:

1. Goode & Hatt. Methods in Social Research.
2. Young, P. V. Scientific Social Surveys and Research.
3. Danda, Ajit. Research Methodology in Anthropology, Inter- India, New Delhi.
4. Gupta, S. P. Statistics Methods.
5. Elhance, D. N. Practical Problems in Statistics, Kitab Mahal, Allahabad.
6. Levin, J. Elementary Statistics in Social Research.
7. Sarin, S.S. and Balchandani, M.K. Fundamentals of Statistics. Ratan Prakashan Mandir, Agra.
8. Fernandes & Tondon, Participatory Research.
9. Fisher, Michael. Application in Computing for Social Anthropologists, London, Routledge.
10. H. Russel. Bernard, Handbook of Methods in Cultural Anthropology, Altamira Press.
11. Kaplan, Abraham. The Conduct of Enquiry: Methodology for Behavioural Sciences.
12. Kassam & Mustafa. Participatory Research.
13. Madrigal, Lorena. Statistics for Anthropology.
14. Mukherjee, Neela. Participatory Rural Appraisal and Questionnaire Survey.
15. Pelto P.S. & Pelto G.H. Anthropological Research: the structure of inquiry. London, Cambridge University Press.
16. Renfrew, C. (ed.). The Explanation of Culture Change: Models in Prehistory. Duckworth.
17. Sankalia, H.D. Stone Age Tolls, Families and Techniques, Pune, Deccan College.
18. Trigger, B.G. Beyond History the Methods of Prehistory. Holt, Rinehard and Winston.
19. Young, Pauline. Scientific Social Survey and Research.

M.A./M.Sc. ANTHROPOLOGY

**SEMESTER-I
LAB COURSE I -PRACTICALS IN CRANIOLOGY AND CRANIOMETRY**

MAX. Marks- 80

MIN. Marks - 27

- Description of Human Skull and its importance in biological anthropology.
- Craniology and Forensic science.
- Following Craniometric measurements are to be taken on atleast 2 skulls.

Measurements

- Maximum cranial length
- Glabella-inion length
- Nasion-inion length
- Glabella-lambda length
- Length of foramen magnum
- Maximum Cranial breadth
- Minimum frontal breadth
- Maximum frontal breadth
- Bi-auricular breadth
- Greatest occipital breadth
- Bi- mastoid breadth
- Minimum breadth of skull
- Breadth of foramen magnum
- Basion bregma height
- Auriculo bregmatic height
- Calvarial height
- Occipital chord
- Outer bi-orbital breadth
- Inner bi-orbital breadth
- Bi-orbital breadth
- Bizygomatic breadth
- Bimaxillary breadth
- Morphological facial height
- Upper facial height
- Inter orbital breadth
- Orbital breadth, Orbital height
- Nasal breadth
- Nasal height
- Length of nasal bone
- Maxillo-alveolar length
- Maxillo alveolar breadth

- Palatal length
- Palatal breadth
- Palatal height
- Bi-condylar breadth
- Bigonial breadth
- Symphysial height
- Height of ramus.
- **Angles**
- Total profile angle
- Nasal profile angle
- Profile angle of nasal roof
- Metopic angle
- Inclination angle of foramen magnum
- Calvarial base angle
- Bregma angle of Schwalbe
- Mandibular angle.

Index

- Cranial index
- Facial index
- Nasal index

Measurement on Craniograph

(At least on 2 skulls)

- Calvarial height
- Lambda calvarial height
- Frontal perpendicular
- Parietal perpendicular
- Occipital perpendicular.

Recommended Readings:

1. Singh, S.P. Kinanthropometry
2. Ashley Montagu, M.F.A. Hand Book of Anthropometry. Charles. C. Thomas. Illinois.
3. Singh, I.P. Bhasin, M.K. Anthropometry. Bharti Bhawan, New Delhi.
4. Weiner, J.S. & Lourie. J.A. Human Biology: A Guide to Field Methods. I.B.P. Hand
5. Book No. 9 Blackwell Scientific Publication, Oxford.
6. Mitra, M. 1990. Prayogik Manav Vigyan- Bhag -2. Madhya Pradesh Hindi Granth
7. Academy (in Hindi).
8. Mitra, M. & Chaube, R. 2004. Prayogik Manav Vigyan (Sharirik) Bhag -2. Madhya
9. Pradesh Hindi Granth Academy (in Hindi).

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M.A./M.Sc. ANTHROPOLOGY

**SEMESTER-I
LAB COURSE II- PRACTICALS IN OSTEOLOGY AND OSTEOMETRY**

**MAX. Marks- 80
MIN. Marks - 27**

Description of Human skeletal bones and its importance in biological anthropology, Osteology and forensic science.

Following **Osteometric** measurements are to be taken on bones.

CLAVICLE

Measurements

- Maximum length
- Vertical diameter in the middle
- Sagittal diameter in middle
- Girth in the middle
- Breadths of curvature of shaft

Angles

- Inner and outer

Indices

- Caliber index
- Cross section index

SCAPULA

Measurements

- Anatomical breadth
- Anatomical length
- Length of Cranial border
- Length of axillary border
- Projective length of spine
- Anatomical breadth of supra-spinous fossa
- Anatomical breadth of infraspinous fossa
- Length of glenoid fossa
- Breadth of glenoid fossa
- Projective breadth of supraspinous fossa
- Projective breadth of infraspinous fossa

Angles

- Supraspinous angle
- Infraspinous angle
- Breadth-Length angle
- Axillo-Spinal angle
- Vertebral border angle

Indices

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- Scapular index
- Supra spinal index
- Infra spinal index
- Marginal index
- Length breadth index of glenoid fossa

HUMERUS

Measurements

- Maximum length
- Breadth of proximal epiphysis
- Breadth of distal epiphysis
- Least girth of shaft
- Maximum transverse diameter of head
- Maximum Vertical diameter of Head
- Maximum Diameter in middle
- Girth in middle of shaft
- Minimum diameter in middle

Angles

- Torsion angle
- Capito-diaphysial angle
- Condylo-diaphysial angle

Indices

- Caliber index
- Cross-section index of shaft
- Cross-section index of head

RADIUS

Measurements

- Maximum length
- Physiological length
- Least girth of shaft
- Transverse diameter of shaft
- Sagittal diameter of shaft

Angles

- Collo-diaphysial angle
- Torsion angle

Indices

- Caliber index
- Cross section index of shaft
- Curvature index

ULNA

Measurements

- Maximum length
- Physiological length

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- Least girth of shaft
- Breadth of olecranon
- Height of olecranon

Angles

- Olecranon- coronoid angle
- Joint axis angle

Indices

- Caliber index
- Cross-section index of shaft
- Curvature index

FEMUR

Measurements

- Maximum length
- Trochanteric length
- Sagittal diameter of middle of shaft
- Physiological length
- Transverse diameter of middle shaft
- Girth of middle of shaft

Angles

- Torsion angle,
- Collo-diaphysial angle
- Condylo diaphysial angle

Recommended Readings:

1. Singh, S.P. Kinanthropometry
2. Ashley Montagu, M.F.A. Hand Book of Anthropometry. Charles. C. Thomas. Illinois.
3. Singh, I.P. Bhasin, M.K. Anthropometry. Bharti Bhawan, New Delhi.
4. Weiner, J.S. & Lourie. J.A. Human Biology: A Guide to Field Methods. I.B.P. Hand
5. Book No. 9 Blackwell Scientific Publication, Oxford.
6. Mitra, M. 1990. Prayogik Manav Vigyan- Bhag -2. Madhya Pradesh Hindi Granth
7. Academy (in Hindi).
8. Mitra, M. & Chaube, R. 2004. Prayogik Manav Vigyan (Sharirik) Bhag -2. Madhya
9. Pradesh Hindi Granth Academy (in Hindi).

24
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**School of Studies in Anthropology
Pt. Ravishankar Shukla University, Raipur**

M.A./M.Sc. ANTHROPOLOGY

Semester – II

January 2021 - June 2021



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M.A./M.Sc. ANTHROPOLOGY
SEMESTER-II
PAPER I – INDIAN ARCHAEOLOGY

MAX. Marks- 80
MIN. Marks - 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT-I

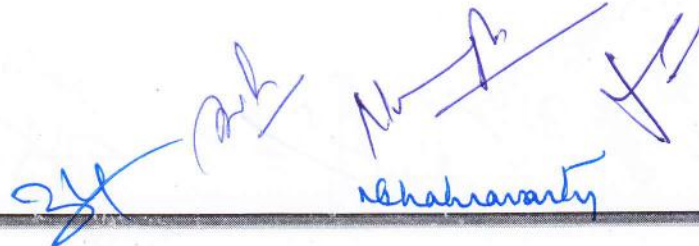
- Historical development of Prehistoric Archeology.
- Framework of Archaeological Cultures
- Terminology Issues
- Expoloration and Excavation Techniques.

UNIT-II

- Lower Paleaeolithic cultures of India: Distribution, Stratigraphy, Chronology, Tool Kit, Soanian & Madrasian Traditions, Development & Associated fossils.
- Middle Paleolithic Cultures of India: Distribution, Stratigraphy, Chronology, Tool Kit, Development & Associated fossils.
- Upper Paleolithic Cultures of India: Distribution, Chronology, Assemblage, Art (Rock Art & Cave Art), Development

UNIT-III

- Mesolithic Cultures of India: Discoveries, Chronology, Tool kit, Stratigraphy, Development, Lifeways, Burial Practices, Associated Flora and Fauna.
- Neolithic Cultures of India: Neolithic Revolution, Discoveries, Chronology, Assemblage, Emergence of Human settlements, Regional Variations.


Shahavarty

UNIT-IV

- Chalcolithic Cultures of India: Distribution, Chronology, Assemblage, Traditions, Lifeways
- Indus Civilization: Discoveries, Distribution, Chronology, Town-planning, Religion, Trade, Origin & Decay Theories.
- Megalithic Culture of India: Distribution, Chronology, Assemblage, Types, Living Megalithic Traditions.

Recommended Readings:

1. Agrawal, D.P. The Archeology of India.
2. Allchin and Allchin, 1982. The Rise of Civilization in India and Pakistan, Select Book Service
3. Syndicate, New Delhi.
4. Bhattacharya, D.K. 1987. Pre-historic Archaeology: A comparative study of human succession.
5. Bhattacharya, D.K. 1994. Outline of Indian Prehistory.
6. Pandey, J. N. 2000. Puratatva Vimarsh (in Hindi)
7. Misra, V. N. & M. S. Mate 1995. Indian Prehistory; 1964.
8. Choubey, R. Puratatvik Manavvigyan (in Hindi)
9. Sankalia, H. D. 1974. Pre and Protohistory of India and Pakistan.
10. Varma, R.K. & N. Varma, 2001. Puratatva Anushilan
11. Wheeler, R.E.M. 1959. Early India & Pakistan.

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A signature that appears to be "Rish" with a horizontal line through it.
A signature that appears to be "N. S." with a horizontal line through it.
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A signature that appears to be "R. Chakravarty" at the bottom.

M.A./M.Sc. ANTHROPOLOGY

**SEMESTER-II
PAPER II - FUNDAMENTALS OF HUMAN GENETICS**

**MAX. Marks- 80
MIN. Marks - 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT-I

- History, Definition and Scope of Human Genetics.
- Branches of Human Genetics.
- Concept of Gene.
- Elementary principles of Genetics.
- Structure and function of DNA, RNA and Proteins.
- Genetic code.

UNIT-II

- Cell Division- Mitosis and Meiosis.
- Mendelism. Application of Mende's theory in man.
- Methods of studying human heredity: Pedigree method, Twin method, Linkage Studies.

UNIT-III

- Multiple alleles and blood groups
- Inheritance of ABO, MN and Rh blood groups.
- Compatible and Incompatible mating.
- Concept of gene frequencies.

24 *shahavarty*

UNIT-IV

- Autosomal Dominant and Recessive inheritance.
- Sex-linked, Sex-limited and Sex-influenced inheritance.
- Polygenic inheritance.

Recommended Readings:

1. Curt Stern. 1968. Principles of Human Genetics. Eurasia Publishing House (Pvt.) Ltd., Ram Nagar, New Delhi-1 (India).
2. Winchester, A. M. 1967. Genetics, Oxford & IBH Publishing Co.
3. Bhasin, V. 1994. People, Health and Disease: The Indian Scenario, Kamla- Raj Enterprises, Delhi.
4. Bhasin, M., K., Walter, H. and Danker-Hopfe, H. 1992. The Distribution of Genetical, Morphological and behavioural
5. Traits among the Peoples of Indian Region, Kamla- Raj Enterprises, Delhi.
6. Bhamrah and Chaturvedi, A Text Book of Genetics.
7. Mange and Mange, Basic Human Genetics.
8. Rothwell, N.V., Human Genetics.
9. Harrison et al. Human Biology.
10. Ashley Montagu, Concept of Race.
11. Shukla, B.R.K. & Rastogi, S., Physical Anthropology and human Genetics.
12. Dalela and Verma, T Text Book of Genetics.
13. Bodmer & Cavalli Sforza, Genetics, Evolution and Man.
14. King and Stansfield, A Dictionary of Genetics.
15. Brudette, W.J., Methodology in Human Genetics.
16. Yunis, J.J. (Ed.), Biochemical Methods in Red Cell Genetics.
17. Harris, H., Human Biochemical Genetics.

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M.A./M.SC. ANTHROPOLOGY
SEMESTER-II
PAPER III - MEDICAL ANTHROPOLOGY

MAX. Marks- 80
MIN. Marks – 27

Each paper will have 40 compulsory questions divisible into 4 sections.

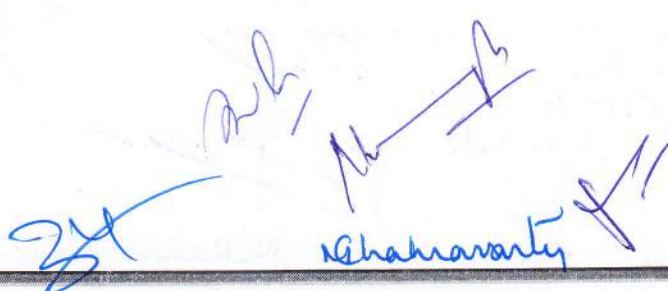
- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT – I

- Meaning and scope of Medical Anthropology
- Changing concepts of health and disease
- Culture and lifestyle in relation to health and disease.
- Ethno medicine.
- Magico-Religious practices.
- Indigenous medical systems and medical practitioner
- Ethno-botany
- Ethno-pharmacology.
- Ethno-biology.
- Ethnography of tribal medical system with special reference to tribes of central India.
- Resurgence of traditional medical systems in the west and India.

UNIT- II

- Epidemiology basic principles: epidemiology of common communicable and non-communicable diseases- 1. Malaria 2. T.B. 3. Leprosy 4. STD 5. Diabetes, 6. HIV/AIDS 7. Cancer 8. Cardiovascular diseases.
- Mental health,
- National disease control programmes.
- Plural and alternative systems of medicine traditional system as part of culture and life style: 1. Ayurveda 2. Unani 3. Naturopathy 4. Tibetan 5. Chinese basic principles.



UNIT -III

- Medical statistics measurement of morbidity and mortality rates incidence and other statistics.
- Health promotion and health programmes.
- Nutrition
- RCH
- Family welfare
- Health education ageing (Peoples perspectives to be focused)
- Health and environment: water pollution, air pollution, noise pollution.
- International Health : WHO, UNICEF, USAID, Food Foundation etc.

UNIT -IV

- National health policy: Historical Review.
- Health care delivery in India rural and urban, Response of the people.
- Voluntary efforts in community health and development: Some case studies of community participation.
- Anthropological approach to health systems research, use of an anthropological research method in health system research.
- Evaluation judicious mix of qualitative and quantitative research methods.

Recommended Readings:

1. Medical Anthropology: Foster, George
2. Handbook of Medical Anthropology: Freeman, H.E. et al
3. Culture, Disease and Healing: Landy, D.
4. Culture, Health and Illness: Helman Cecil, Wright Bristol, 1985
5. Folk illness and Ethnomedicine: Banerjee B.G. and R. Jalota
6. Applied Anthropology in Medicine: Coudil, W.
7. Social Anthropology and Medicine: Loudon, J.B. (ASA Monograph)
8. Doctors and Society: Madan T.N.
9. Forensic Anthropology: Steward T.D.
10. Crime and Detection: Symans, J.
11. Methods in Forensic Anthropology: Nicoles
12. Forensic Science and laboratory: Turner
13. Practical Finger printing: Bridges
14. Finger, Palm and Sole Prints: Chatterjee
15. Methods in Forensic Science: Lundquist, F. and A.S. Curry
16. Modern Trends in Forensic Medicine: Ment
17. Anthropology Part-I: Jha and Baranwal
18. Harold Cummins and Charles Midlo. 1961. Finger Prints, Palms and Soles: An Introduction to Dermatoglyphics, Dover Publications, New York.
19. Medicine, Magic and Religion, Rivers, W.H.R.
20. The Cultural Frontiers of Health, Hasan, K.
21. Traditional Medicine and Health Care Coverage (WHO), Bannermann et al.

22. Folk and Modern Medicine, Kakar, D.N.
 23. Asian Medical System, Leslie, C. (Ed.).
 24. People"s Health in People"s Hand, Anti, A.H. & Bhatia
 25. Women"s Autonomy, Education and Reproductive Health, Jajeebhoy, S.
 26. Ministry of Health and Family Welfare, National Health Policy
 27. W.H.O., World Health Reports.
 28. National Institute of Health & Family Welfare, Maternal and Child Welfare
 29. Health, Culture and Community, Paul, B.D.
 30. Cultural Patterns and Technological Change, Mead, M.
 31. Culture, Health and Disease, Read, M.
 32. Dash, J., Patra, P.K. and Sathpathy, K.C. Dimensions of Healthcare practices, SSDN Publishers, New Delhi.
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24
Chakravarty

M.A./M.SC. ANTHROPOLOGY

**SEMESTER-II
PAPER IV - BIOSTATISTICS AND COMPUTER APPLICATIONS**

**MAX. Marks- 80
MIN. Marks – 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT-I

- Measures of Dispersion: Dispersion, Range, Variance, Standard Deviation, Standard Errors, Skewness and Kurtosis.
- Correlation: Simple correlation, Grouped and ungrouped data, Karl Pearson's Coefficient of Correlation.

UNIT-II

- Parametric and non parametric test.
- Test of Significance: Non- parametric Tests: Chi-square Test, Goodness of fit.
- Parametric Test: t-test, Z-test.
- Regression analysis: Linear regression and logistic regression
- Bivariate and multivariate Analysis

UNIT-III

- Population Study: Vital Statistics.
- Fertility and Fertility rates.
- Mortality and Mortality rates: Infant Mortality and Infant Mortality rates & Maternal Mortality.
- Factors affecting Fertility and Mortality.
- Morbidity and Morbidity rates.
- Migration and Migration rates.

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UNIT-IV

- Introduction to Computer: History & Types of Computers.
- Computer hardware and software.
- Operating System : Windows.
- MS Office: 1. MS-Word 2. MS-Excel 3. MS-Power Point
- Internet: Use of Internet in Anthropological Research, epg Pathshala, N-List.
- Anti virus.
- Data Analysis Softwares: SPSS 16.0, MS-Excel.
- Referencing Softwares : Mandeley.

Recommended Readings:

1. Gupta, S.P., Statistical Methods.
2. Sarin, S.S. and Balchandani, M.K., Fundamentals of Statistics. Ratan Prakashan Mandir, Agra.
3. Summar, M., Computers: Concepts and Uses.
4. Wardlaw, A.C., Practical Statistics for experimental biologists.
5. Zar, J.H., Biostatistical Analysis.
6. Elhance, D. N., Practical Problems in Statistics, Kitab Mahal, Allahabad.
7. Sarin, S.S. and Balchandani, M.K., Fundamentals of Statistics. Ratan Prakashan Mandir, Agra.
8. Fernandes & Tondon, Participatory Research.
9. Fisher, Michael., Application in Computing for Social Anthropologists, London, Routledge.
10. H. Russel. Bernard, Handbook of Methods in Cultural Anthropology, Altamira Press.
11. Kaplan, Abraham, The Conduct of Enquiry: Methodology for Behavioural Sciences.
12. Madrigal, Lorena, Statistics for Anthropology.
13. Pradhan, Ashok, Janjatiya Janankiki

34
Shahnavaty

M.A./M.SC. ANTHROPOLOGY
SEMESTER-II
LAB COURSE I – PRACTICALS IN ARCHAEOLOGY

MAX. Marks- 80
MIN. Marks - 27

- 1) Tools: Typology, Functions & Technology.
- 2) Sketching and description of representative Prehistoric tools:
 - (a) Stone tools
 - (b) Bone tools
 - (c) Pottery
- 3) Site Types: Kill sites, Habitation sites, Industry sites, Quarry sites, Burial sites.
- 4) Visit to Museum, Excavation Site.
- 5) Conservation & Preservation of Antiquities.

Recommended Readings:

1. Mitra, Mitashree & Ramesh Choubey. Prayogik Manavvigyan (in Hindi).
2. Oakley, K.P. 1972. Man the Tool Maker.
3. Reddy, Rami. Tool techniques in Prehistory.
4. Sankalia, H. D. 1964. Stone age tools: Their techniques, names & probable functions.

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N. Chakravarty

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M.A./M.Sc. ANTHROPOLOGY

**SEMESTER-II
LAB. COURSE II- COMPULSORY FIELDWORK**

MAX. Marks- 80

MIN. Marks - 27

The course is designed to make the student carry out field work in the planning of project proposal, data collection, data analysis and report writing under the guidance of teacher assigned by the Head of the department using conventional and scientific methods at various stages of the field dissertation. The course aims at capacity building of the student in taking up independent research programmes. The students are required to work with the community for a period of 7-10 days in the village.

1. Field work tradition in anthropology.
2. Preparation for fieldwork: Physical, Psychological and Academic.
3. Rapport building - initial contact.
4. Review of data collection methods (as per Research method).

Two typed copies of analyzed data is to be submitted in the department in the form of a Field work Report

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**School of Studies in Anthropology
Pt. Ravishankar Shukla University, Raipur**

M.A./M.Sc. ANTHROPOLOGY

Semester – III

June 2021 - December 2021

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M.A./M.SC. ANTHROPOLOGY

**SEMESTER-III
PAPER I - APPLIED ANTHROPOLOGY (GROUP - A & - B)**

MAX. Marks- 80

MIN. Marks - 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT- I

- Meaning and Scope of Applied Biological Anthropology.
- Anthropology of Sports.
- Nutritional Anthropology.
- Designing of defense equipments.
- Defense Services.

UNIT- II

- Applications of Human Genetics: Medico - Legal cases, Eugenics.
- Genetic screening, Genetic counseling, Genetic engineering.
- Human Genomics & its applications.

UNIT -III

- Meaning & Scope of Applied Social Anthropology.
- Applied & Action anthropology.
- Applications of Anthropological theory and methodology in the field of tribal development.

UNIT- IV

- Applied anthropology in industry.
- Applied anthropology in education.
- Applied anthropology in public health
- National health Mission.

Recommended Readings:

1. Kroeber. Anthropology Today.
2. Curt Stern. 1968. Principles of Human Genetics. Eurasia Publishing House (Pvt.) Ltd., Ram Nagar, New Delhi-1(India).
3. Steine. Biosocial Genetics.
4. Karp, E. Genetic Engineering.
5. Bodmer and Cavalli-Sforza. Genetics of Human Populations.
6. Backer, PT and Weiner (Eds), The Biology of Human Adaptability.
7. Beal, Virginia, Nutrition and the Life Span
8. Craig, Human Development
9. Eveleth, PB and Tanner, JM Worldwide Variation in Human Growth
10. Forbes, GB, Human Body Composition
11. Sodhi, HS, Sports Anthropology
12. Willigt, JV, Applied Anthropology: An Introduction
13. Stern, C., Principles of Human Genetics.
14. Shukla, B.R.K. & Rastogi, S., Physical Anthropology and Human Genetics An Introduction.
15. McKusick, V.A., Human Genetics.

M.A./M.SC. ANTHROPOLOGY

**SEMESTER-III
GROUP - A : PHYSICAL ANTHROPOLOGY
PAPER II - ADVANCED HUMAN BIOLOGY**

**MAX. Marks- 80
MIN. Marks – 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT-1

- Gene expressivity: Lethal genes, Sub-lethal genes, modifying genes, Co-dominance,Suppressor genes, Selfish gene Variable Penetrance in man.
- Sex determination in man.
- Dermatoglyphics: Identification, Topography, Finger prints pattern-identification, pattern intensity, Furuhata and Dankmeijer's index.
- Palmar Dermatoglyphics- Configurational areas, Main line formula and Index & transversality, atd angle and flexion creases.

UNIT-2

- Probability.
- Hardy-Weinberg law, Testing Equilibrium, Applications of Hardy Weinberg Law in Human Population Genetics.
- Genetic Polymorphism: Transient and Balanced.
- Concept of Gene Pool and Gene Frequency.

UNIT-3

- Human Chromosomes, Chromosome Karyotype – Banding Techniques.
- Numerical and Structural Chromosomal abnormalities
- Inborn errors of Metabolism: G6PD Deficiency, PKU, Alkaptonuria.
- Genetic Counseling and pre-natal diagnosis.

UNIT-4

- Occurrence of Mutation: Mutation Rate- Direct and Indirect Method.
- Selection in Human Population, Selection Relaxation, Selection Leading to Changes in Gene.
- Frequency and Selection leading to change in Genetic Equilibrium.
- Inbreeding : Definition and Concept, Inbreeding with Pedigree.
- Coefficient of Inbreeding. Genetics Consequences of inbreeding in Human Population.
- Genetic hazards of radiation.

Recommended Readings:

1. Crow & Kimura. 1970. An Introduction to Population Genetics Theory, Harper & Row Publishers, New York.
2. Curt Stern. 1968. Principle of Human Genetics, Eurasia Publishing House (Pvt.) Ltd., Ram Nagar, New Delhi-1
3. (India).
4. Li, C. C. Population Genetics, Chicago University Press, Chicago.
5. Baker, P.T. & Weiner (Eds.), The Biology of Human Adaptability.
6. Beal, Virginia, Nutrition and the Life Span.
7. Beutler, E., Red Cell Metabolism: A Manual of Biochemical Methods.
8. Bouge, D., Principles of Demography.
9. Brock and Mayo, The Biochemical Genetics of Man.
10. Burdette, W.J., Methodology of Human Genetics.
11. Craig, Human Development.
12. Dixit, M., Human Nutrition Principles and Applications in India.
13. Emery A.E.H., Elements of Medical Genetics.
14. Eveleth, P.B. & Tanner, J.M., Worldwide variations in Human Growth.
15. Giblett, E.R., Genetics Markers in Human Blood.
16. Li, C.C., Human Genetics
17. Malhotra, K.C. & ISHG, Calcutta, Statistical Methods in Human Population Genetics, IBRAD, ISI
18. Wright, S., Evolution and Genetics of Population
19. Stanfield, W.D., Theory and Problems of Genetics.
20. Burdette, WJ, Methodology in Human Genetics
21. Crow, J.F. & Kimura, M., An Introduction to Population Genetic Theory
22. Rothwell, N.V., Human Genetics.
23. Mange, J.E. & Mange, A.P., Basic Human Genetics.
24. Bhamarh, H.S. & Chaturvedi, C.M., A Textbook of Genetics.

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M.A./M.Sc. ANTHROPOLOGY

**SEMESTER -III
GROUP - A : PHYSICAL ANTHROPOLOGY
PAPER III – HUMAN GROWTH AND NUTRITION**

**MAX. Marks- 80
MIN. Marks - 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT – I

- Human growth and Development: Pre-natal and Post-natal growth, infancy, Childhood, adolescence, adulthood, senility.
- Human growth curves Catch up and Catch down growth.
- Basic methods of growth studies - Cross-sectional, Longitudinal, Mixed Longitudinal Linked longitudinal.

UNIT – II

- Factors affecting growth: Heredity, Environment & hormonal.
- Human Adaptation : Allen's and Bergmann's rule
- Concept of age: chronological, skeletal, dental, morphological.

UNIT – III

- Nutrition: Basic terms and concepts.
- Concept of Balanced Diet, Malnutrition, Under nutrition, Overnutrition, Obesity etc.
- Special problems related to growth and nutrition growth at risk; infants, pregnant and lactating mothers, old age problems, birth weight variations; abnormal growth failure.
- Evaluation of nutritional status through Anthropometric and Clinical signs of malnutrition.

UNIT – IV

- Growth Programmes: ANP, ICDS, SNP, Mid-Day meal programme; Vitamin-A prophylaxis programme, Anemiaprophylaxis Programme, Goiter control programme, Nutritional deficiency diseases: Nicotinic acid deficiency, Vitamin-C, Vitamin-D deficiency.
- Problem of Malnutrition.
- Morbidity and Mortality in India.
- IMR. Role of maternal education, Immunization programme in India.

Recommended Readings:

1. Tanner, J. M. 1962. Growth at Adolescence, Blackwell Scientific Publications, Oxford.
2. Lowrey, G. H. 1978. Growth & development of children, Year book Medical Publishers, Chicago – London.
3. Swaminathan, M. 1985. Essentials of Food and Nutrition, The Bangalore Printing and Publishing Co. Ltd.
4. Gopalan, C., Rama Sastri, B., V. & Balasubremanian, S., C. 2002. Nutritive value of Indian foods, National Institute of Nutrition, ICMR, Hyderabad.
5. Parasmani dasgupta and Roland Hauspie , 2001. Perspectives in Human Growth, Development and Maturation, Kluwer Academic Publishers, London.
6. Marshall, W. A. 1977. Human Growth and its Disorders, Academic Press, London.
7. Harrison, G.A., Weiner, J.S., Tanner, J.M. and Barnicot, N.A. Human Biology: An Introduction to Human Evolution, Variation and Growth, Clarendon Press, Oxford.
8. Tanner, J.M., Fetus into Man.
9. Jelliff, D.B., Community Nutritional Assessment with Special Reference to Less Developed Countries.
10. Dixit. Human Nutrition: Principles and Applications in India.
11. Shanti, G. Nutrition and Child Care: A Practical Guide.
12. B. Srilaxmi, Nutrition Science.
13. Margart Schay, Nutrition.
14. Rao, V.K.R.V. Food Nutrition and Poverty.
15. Nelson, A Text Book of Pediatrics .
16. Garrow, J.S. and James, W.P.T: Human Nutrition and Dietetics.
17. Swaminathan, M., Essentials of Food and Nutrition: Applied Aspect.
18. Eveleth, PB and Tanner, JM Worldwide Variation in Human Growth
19. Forbes, GB, Human Body Composition

M.A./M.Sc. ANTHROPOLOGY

**SEMESTER-III
GROUP - A : PHYSICAL ANTHROPOLOGY
PAPER- IV HUMAN MOLECULAR GENETICS**

**MAX. Marks- 80
MIN. Marks - 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT -I

- Definition and scope of Molecular Genetics.
- Nucleic acid: Structure, Chemical and physical properties of nucleic acids, spectroscopic and thermal properties of nucleic acids.
- DNA organization in chromosomes: DNA structure, DNA replications.
- RNA structure.
- Gene transcription in eukaryotes.

UNIT-II

- Techniques in Molecular Genetics: Recombinant DNA technology, Restriction enzymes, Nucleic acid hybridization, DNA cloning, DNA sequencing, Polymerase chain reaction (PCR), Southern blot, Northern and Western blot, In situ hybridization, Labeling nucleic acid probes, Transgenic organisms.

UNIT-III

- DNA Poymorphism DNA mutation and repair, Repetitive DNA.
- Gene mapping, Physical mapping, Genomic imprinting.
- Expression of eukaryoteic protein-coding genes.
- Genetic code and Protein synthesis.
- DNA Sequencing and fingerprinting

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UNIT-IV

- Application of Genomic Technology: RFLP (Restriction fragment length polymorphism), VNTR (Variable number tandem repeat), Microsatellite repair polymorphism, Application in forensic sciences.
- Human genome project.
- Prenatal diagnosis and Genetic Counseling of molecular disorders.

Recommended Readings:

1. Strachan, T. and Read, A.P. 1999. Human Molecular Genetics. BIOS Scientific Publishers Ltd, Oxford. (574.8732, STT H, 84237).
2. Jackson, M., Strachan, T. and Dover, G. 1996. Human genome Evolution. BIOS Scientific Publishers Ltd., Oxford. (573.2, JAM H, 79134).
3. Levis, R. 2003. Human Genetics Concepts and Application. 4th ed. Dubuque, IA: McGraw-Hill.
4. Koolman, J and Roehm, K.H. 2005. Color Atlas of Biochemistry. 2nd ed. Thieme Stuttgart. New York.
5. Lewin. 2003. Genes VIII. 1st ed. Prentice Hall.
6. Mc Kusick, V.A. Human Genetics.
7. Rieger, R. et al., Glossary of Genetics – Classical and Molecular
8. Brock and Mayo, The Biochemical Genetics of Man
9. Winchester, A.M., Human Genetics.

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M.A./M.Sc. ANTHROPOLOGY

SEMESTER-III

GROUP - A : PHYSICAL ANTHROPOLOGY

LAB COURSE I – PRACTICALS IN APPLIED BIOLOGICAL ANTHROPOLOGY

MAX. Marks- 80

MIN. Marks - 27

1. Collection of blood specimens.
2. Preparation of Hemolysates and serum & their storage.
3. Preparation & identification of Heme in Crystals.
4. Laboratory examination of blood and blood stains for criminal detection: Preliminary test, confirmatory test: Tiechmann test, Takayama test.
5. Techniques of blood grouping: ABO blood group system Rh, blood group system & MN blood group system. Personal Identification by blood grouping.
6. Calculation of gene frequencies.
7. Test of ABH saliva secretion.
8. Test of Hemoglobin determination in human blood.
9. Test for Sickle cell hemoglobin.
10. Test for Colour blindness P.T.C. taste sensitivity.
11. Examination of R.B.C. in Human Blood.
12. Examination W.B.C. in Human Blood.
13. Dermatoglyphics: Analysis of finger, palm, sole and toe prints
14. Isolation of DNA from human blood and personal identification by DNA markers.

NOTE: Five specimens to be analyzed by each student in the above-mentioned traits unless stated otherwise.

Recommended Readings:

1. Race, R. R. & Sanger, R. 1968. Blood group in man. Blackwell Scientific Publications, Oxford. (612.11825, RAR).
2. Kathleen E. Boormen and Barbara E. Dodd. An Introduction to Blood group Serology (612.11825, BOK).
3. Bhasin, M. K. and Chahal, S. M. S. 1996 . A Laboratory Manual for Human blood Analysis,
4. Kamla Raj Enterprises, Delhi. Shrivastava, B. K. 1983. A Manual of Practical Physiology, Samit Medical Publications,
5. Patna. Dacie, J. V. and Lewis, S. M. 1991. Practical haematology, 5th edition, J. and A. Churchill, Livingstone.

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-III

GROUP - A : PHYSICAL ANTHROPOLOGY

LAB COURSE II - PRACTICAL IN HUMAN GROWTH, NUTRITION & PHYSIOLOGY

MAX. Marks- 80

MIN. Marks - 27

Human Growth :

- Techniques of taking skinfold measurement: Biceps, Triceps, Sub-scapular, Supra-illiac.
- Body Proportions.
- Body Composition.
- Somatotyping.

Nutrition:

- Detection of nutritional status on the basis of body measurements
- Nutritional Anthropometry: Ht/Age, Wt/Age/Wt/Ht.
- Body Mass Index (BMI)
- Waist/Hip Ratio

Physiology:

- Examination of Pulse Rate
- Determination of Blood Pressure
- Determination of Vital Capacity
- Hand Grip

Recommended Readings:

1. Jelliffe, D. B. & Jelliffe, E. F. B. Nutrition & Growth, New York, Plenum.
2. Swaminathan, M. 1985. Essentials of Food and Nutrition, The Bangalore Printing and Publishing Co. Ltd.
3. Gopalan, C., Rama Sastri, B., V. & Balasubramanian, S. C. 2002. Nutritive value of Indian foods, National Institute of Nutrition, ICMR, Hyderabad.
4. Falkner, F. & Tanner, J. M. Human Growth. Vols. I, II & III, Plenum Press, New York.
5. Jelliffe, D. B. The Assessment of the nutritional status of the community, WHO, Geneva.

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M.A./M.Sc. ANTHROPOLOGY

**SEMESTER-III
PAPER I - APPLIED ANTHROPOLOGY (GROUP A & B)**

**MAX. Marks- 80
MIN. Marks - 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

Unit I

- Meaning and Scope of Applied Biological Anthropology.
- Anthropology of Sports.
- Nutritional Anthropology.
- Designing of defence equipments.
- Defence Services.

Unit II

- Applications of Human Genetics: Medico - Legal genetics, Eugenics, Forensic applications.
- Genetic screening, Genetic counseling, Genetic engineering.
- Human Genomics & its applications.

UNIT III

- Meaning & Scope of Applied Social Anthropology.
- Applied & Action anthropology.
- Application of Anthropological theory and methodology in the field of tribal development.

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UNIT IV

- Applied anthropology in industry.
- Applied anthropology in education.
- Applied anthropology in public health.
- National health programmes.

Recommended Readings:

1. Kroeber. Anthropology Today.
2. Curt Stern. 1968. Principles of Human Genetics. Eurasia Publishing House (Pvt.) Ltd., Ram Nagar, New Delhi-1(India).
3. Steine. Biosocial Genetics.
4. Karp, E. Genetic Engineering.
5. Bodmer and Cavalli-Sforza. Genetics of Human Populations.
6. Backer, PT and Weiner (Eds), The Biology of Human Adaptability.
7. Beal, Virginia, Nutrition and the Life Span
8. Craig, Human Development
9. Eveleth, PB and Tanner, JM Worldwide Variation in Human Growth
10. Forbes, GB, Human Body Composition
11. Sodhi, HS, Sports Anthropology
12. Willigt, JV, Applied Anthropology: An Introduction
13. Stern, C., Principles of Human Genetics.
14. Shukla, B.R.K. & Rastogi, S., Physical Anthropology and Human Genetics An Introduction.
15. McKusick, V.A., Human Genetics.

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-III

GROUP - B : SOCIAL ANTHROPOLOGY

PAPER II – THEORY AND METHODS IN SOCIAL-CULTURAL ANTHROPOLOGY

MAX. Marks- 80

MIN. Marks - 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT-I

- History of Anthropology Thought : Classical School.
- Pioneers in Anthropology.
- Evolutionism : Spencer, Morgan, Tylor, Jamer Frazer.
- Neo-evolutionism : Leslie White, Julian Steward, Sahlin
- Diffusionism: Perry, Elliot Smith, Graebner, Freidrich Ratzel.
- Historici Particularism : Boas, Wissler, Kroebar.

UNIT-II

- Functional: B. Malinowski, Merton.
- Structural-Functionalism: Radcliffe-Brown, Evans-Pritchard, Mayer Fortes, Raymond Firth, Nadel.
- Structuralism: Levi Strauss, Leach.
- Psychological Anthropology.
- Culture and Personality Studies : Kardiner, Linton, Ruth Benedict, Cora-du-Bois, Margaret Mead, Spiro, Mary Douglas, A. Kleinman, AFC Wallace, Stephen Taylor.

UNIT-III

- Philosophical anthropology: Concept of Value, Cultural Relativism, Value and human rights : Herskovits.
- Cognitive Anthropology.
- Historical and Dialectical Materialism: Hegel, Marx and Engels.
- Symbolic and Interpretative Anthropology: Turner, Schneider, Geertz.
- Post-Modernism: Marcus, Fischer, Jean Baudrilard, Michel Foucault, Jacques Derrida.

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UNIT-IV

- “Primitive” as a conceptual model in Anthropological research.
- Emic-Etic paradigms.
- Synchronic- Diachronic paradigms.
- Ethnographic method for policy planning and intervention.
- Synthesizing micro and macro paradigms, Inductive and deductive approaches.
- Dilemma of “We” and “They” in research.
- Efficacy of qualitative method and its application as an additive tool to quantification.
- Autonomous nature of Anthropology: Integration of Scientific and humanistic approaches.
- Anthropologist as scientist, citizen and humanist.

Recommended Readings:

1. Jha, M. Manavshastriya vichardhara- Ek Parichaya. (in Hindi).
2. Shrivastava, A.R.N. Sanskritik Manav vigyan – Siddhanta aur Uplabdhiyan ((in Hindi).
3. Harskovitz, M.J. Sanskriti ki pristhabhumi (in Hindi).
4. Muthal, S. Samajik Manav Vigyan- Saidthantik Vyavahar (in Hindi).
5. Harris, M. Rise of Anthropological Theory. Routlege and Kegan Paul, London.
6. Malinowski, B. Scientific theory of culture and other essays.
7. Evans-Pritchard. A History of Anthropological Thought.
8. Bidney, David, Theoretical Anthropology, New York, Colombia University press.
9. Erickson, Paul, Anthropological Lives: Biographies of Eminent Anthropologists, New Delhi, Reliance.
10. Sahlins & Service, Evolutions and Culture.
11. Schneider et al., Symbolic Anthropology: A Reader in the Study of Symbols and Meanings.
12. Turner, Roy, Ethnomethodology.
13. Douglas, Marry, Cultural Bias.
14. Gerttaz, Clifford, The Interpretation of Culture.
15. Ingram, John, Psychological Anthropology Reconsidered.
16. Manganaro, Marc, Modernist Anthropology: From Fieldwork to Text.
17. Nadel, S.F., The Foundations of Social Anthropology
18. Manners, R.A. & David Kaplan (Eds.), Theory in Anthropology.
19. Levis-Strauss, Structural Anthropology.
20. Malinowsky, Scientific Theory of Culture and Other Essay.
21. Redfield, R., Human Nature and the Study of Society.
22. Tyler, Stephen (Ed.), Cognitive Anthropology.
23. Redfield, Robert, Peasant Society and Culture.
24. Steward, Julian H., Contemporary Change in Traditional Society.
25. Moore, The Future of Anthropological Knowledge.
26. Hastrup, A Passage to Anthropology.
27. Schneider, Turner and Douglas. Symbolic and Interpretative Anthropology
28. Tylor, E.B. Studies in Cognitive Anthropology
29. Upadhyay and Pandey. History of Anthropological thought
30. Upadhyay and Pandey. Tribal Development in India.

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M.A./M.SC. ANTHROPOLOGY
SEMESTER-III
GROUP - B : SOCIAL ANTHROPOLOGY
PAPER III - INDIAN ANTHROPOLOGY AND MUSEOLOGY

MAX. Marks- 80
MIN. Marks – 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT – I

- Approaches to the study of Indian Society, Culture and civilization : Indological, Anthropological, Historical etc.
- Ancient Culture: Vedic and later vedic age.
- Indian People: Racial, Ethnic, Linguistic and Religious elements (composition) and distribution of people. Autochthons, peopling of India: migration, hypergamy, hypogamy, DNA explanations.
- Unity and Diversity in Indian Society and Culture: linguistic, political, ethnic, communal and religious tensions and conflicts: national integration.
- Basis of Traditional Indian Social Structure and Life Style: vanasharam dharma, purushartha, impact of Buddhism, Jainism, Islam and Christianity.

UNIT – II

- Social Structure: Caste System: Definition and criteria of caste system, Varna and caste, caste among non-Hindus, caste outside India, dominant caste, caste-mobility-fussion, lack of fusion and fission. Backward castes and scheduled castes: statutory provisions, caste and tribe, caste in dedemocracy.
- Indian village: a myth or reality, village a part society, Important of village studies. Jajmani system, Impact of new technology and urbanization – changing agrarian social structure, peasant movements.

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- Growth of anthropology in India: contributions of the following anthropologists: scholar administrators in 19th and 20th century in the understanding of tribal, caste and village communities and Indian social structure and civilization. List in illustrative:

1. J.H.Hutton
2. Mortimer Wheeler
3. Jhon Grierson
4. A.L.Basham
5. Haimendorf
6. V.Elwin
7. Milton Singer
8. S.C.Roy
9. G.S.Ghurye
10. L.A.K.Aiyer
11. N.K. Bose
12. D.N. Majumdar
13. I.Karve
14. M.N. Srinivas
15. S.C.Dube
16. L.P.Vidyarathi
17. Mckim Marriott
18. Robert Redfield

UNIT – III

- History and Development of Museum Movement : Meaning and definition of museum, A short history of museum movement in India.
- Classification of Museum in India: National Museum, State Museum, University Museum, Specialized Museum in India.
- Museum Administration, Acquisition and Arrangement of specimens; Museum Administration,
- Planning of Museum Building, Planning of Museum Gallery, Principles of Display, Lighting of Museum Galleries, Mode and ways of Acquisition of museum specimens, Arrangement of Museum.

UNIT-IV

- Documentation and labels in Museum : Need for Documentation, Methods of Documentation, Safeguards of Records, Development of Computer based Documentations, Documentations of Ethnographic specimens, Museum Labels, Dioramas, Models and Charts, Museum Photography.

- Conservation of Museum: Causes of decay and determination of Museum objects, Care and handling of Museum objects, Packing of Museum objects, cleaning and repairing, Preservation of organic objects, Preservation of Inorganic objects.

Recommended Readings:

1. Allchin, B. & Allchin, R. The Rise of civilization in India and Pakistan, Cambridge University Press
2. Karve, Iravati. Hindu Society- An interpretation.
3. Mandel boum, D. Society in India.
4. Marriott, M. Village India – Studies in the Little Community.
5. Singh, K. People of India – An Introduction. Anthropological Survey of India.
6. Leach, E.R. Aspects of caste in South India, Ceylon and North- West Pakistan.
7. Singer, M. When a Great Tradition Modernizes.
8. Srinivas M. N. Social change in modern India.
9. Nadeem Hasnain. Indian Anthropology.
10. Jha and Baranwal. Indian Anthropology.
11. Karve, Iravati, Kinship organization in India.
12. Sankalia, H.D., Pre and Proto History of India and Pakistan, Pune, Deccan College.
13. Vidyarthi, L.P. Sacred Complex of Kashi, A Microcosm of Indian Civilization, New Delhi, Concept Publication.
14. Haimendorf, C., Tribes of India, the Struggle for Survival.
15. Singh, K.S., Tribal Society in India.
16. Dube, S.C., India's Changing Villages.
17. Basu, T. M. Indian Museum Movement, A. K. Banerjee 89, Mahatma
18. Gandhi Road, Calcutta – 7.
19. Zeheer M. Museum Management, Ram Advani Book.
20. Aiyppan, A. & Satyamurthy, S. T. Handbook of Museum Technique, Govt. of Madras Publication, Gupta
21. Brothers Vishakhapatnam.
22. Markham, S. F. & Hargreaves, H. The Museum of India.
23. Ghosh, D. P. Problems & Trends in Museology
24. Choudhary, J. The Ethnographical collection & their display.
25. Blanderleith, N. J. The Conservation & Antiquities of works and Art.
26. UNESCO (Pub.) A Quaterly Review, Ministry of Education & Social welfare Museum.
27. Bijay K. Behera and Subodha K. Mohanty: Museology and Museum management in India. Mayur Publication: Bhubneshwar
28. Agnihotri, V. 2003. Manav aur uski. Bhotik Sanskriti (in Hindi), K.K. Publications, Allahabad.
29. Singh, Y. Modernization in Indian Tradition.
30. Cohn, B.S. Social Anthropology of Indian Civilization.

M.A./M.SC. ANTHROPOLOGY

**SEMESTER-III
GROUP - B : SOCIAL ANTHROPOLOGY
PAPER IV – TRIBAL DEVELOPMENT**

**MAX. Marks- 80
MIN. Marks – 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT – I

- Definition of tribe and scheduled Tribe. Distribution of scheduled Tribes. Demographic trends. Classification and characteristics of tribal regions. Racial and linguistic classification of Scheduled Tribes. Social structure. Tribal Economy (Stages of economy). Tribal religions.
- Tribal Policy: Tribal Policy, regulatory and development measures during British India. Indian Constitutions –safeguards and provisions for Scheduled Tribes: socio-cultural, economic, education, political services, etc. History of regulatory and developmental measures in pre-Independence period. Administration of Scheduled Areas (Fifth Schedule to the Constitution), Tribal Areas (Sixth Scheduled to the Constitution) and tribal majority States. Important Regulations promulgated by Governors in Scheduled Areas.
- PESA: 73rd Amendment.

UNIT – II

- Tribal Economy : Forests – shifting cultivation- Forest department-its policy, Acts and regulations, Joint Forest Management : tribal agriculture – land holding – land rights-land tenures and land reforms – adoption of modern agricultural technology : allied economics- fishing and hunting ; pastoralism; village and cottage industries; distributions: consumption, saving and investments; tribal markets.
- International and National funding for tribal schemes.
- Land alienation, Indebtedness, Bonded labour and forms of tribal exploitation: Role of cooperation, cooperatives and other financial institutions; Tribal and non-tribal

interaction patterns. Impact of Acts and Regulations against land alienation and debt redemption measures.

UNIT - III

- Tribal Education : Literacy and educational levels: educational programmes : formal, non-formal and vocational; problems in the promotion of tribal education and female education.
- House and Health : housing condition and housing programmes; health, sickness and disease – drinking water, ethno-medicine and modern medical systems; roads and communications –status and issues.
- Impact of industrializations and urbanization. Displacement of tribals as a result of land acquisition for projects and their rehabilitation.

UNIT-IV

- Tribals unrest and revolts : Religious movement; Political movements.
- Basic issues in transition : Loss of languages and traditions, identity and problems of integration
- Planning and Development: Scheduled Tribes in Five Year Plans; Tribal development through SMPT Blocks, TD Blocks and Tribals Sub-plans; Voluntary efforts and role of tribal leadership. Resources-rich regions and resources-depleted regions. Poverty alleviation programmes. Dispersed tribals. Primitive groups. Oceanic communities.
- History of tribal movement in India with special reference to Chhattisgarh.

Recommended Readings:

1. Chaudhary, Bhudadeb (Ed.). Tribal Development in India.
2. Elwin, V.A. Philosophy for NEFA.
3. Haimendorf. The Tribes of India: Struggle for survival.
4. Shara B.D. Basic Issues in tribal Development.

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M.A./M.SC. ANTHROPOLOGY

SEMESTER-III

GROUP - B : SOCIAL ANTHROPOLOGY

LAB COURSE-I : PRACTICALS IN MUSEOLOGY

MAX. Marks- 80

MIN. Marks - 27

- Classification of Museums.
- Techniques of display of artifacts in Museum.
- Techniques of Preservation and Conservation of Various Museum specimens/ cultural implements.

Recommended Readings:

1. Basu, T. M. Indian Museum Movement, A. K. Banerjee 89, Mahatma Gandhi Road, Calcutta7
2. Zeheer M. Museum Management, Ram Advani Book.
3. Aiyppan, A. & Satyamurthy, S. T. Handbook of Museum Technique, Govt. of Madras Publication, Gupta Brothers Vishakhapatnam.
4. Markham, S. F. & Hargreaves, H. The Museum of India.
5. Ghosh, D. P. Problems & Trends in Museology
6. Choudhary, J. The Ethnographical collection & their display.
7. Blanderleith, N. J. The Conservation & Antiquities of works and Art.
8. UNESCO (Pub.) A Quaterly Review, Ministry of Education & Social welfare Museum.
9. Bijay K. Behera and Subodha K. Mohanty: Museology and Museum management in India. Mayur Publication:Bhubneshwar
10. Agnihotri, V. 2003. Manav aur uski Bhotik Sanskriti (in Hindi), K.K. Publications, Allahabad.

M.A./M.SC. ANTHROPOLOGY

SEMESTER-III

GROUP - B : SOCIAL ANTHROPOLOGY

LAB COURSE-II : ETHNO-MUSEOLOGICAL FIELDWORK BASED REPORT AND SEMINAR.

MAX. Marks- 80

MIN. Marks – 27

Draw and describe the measurement of any two from each category of Ethno-Museological Specimen in the Museum of S.O.S. in Anthropology.

A student has to present seminar along with submission of brief report containing characteristic features of material objects collected by him / her during field-work in one of the tribal groups of the Chhattisgarh on any one of the following categories.

- A) Housing patterns
- B) Agricultural implements
- C) Fishing, Hunting, Fire Appliances.
- D) Costumes and dress
- E) Ornaments
- F) Musical instruments
- G) Masks
- H) Any Other

Recommended Readings:

19. Choudhary, J. The Ethnographical collection & their display.
20. Agnihotri, V. 2003. Manav aur uski Bhotik Sanskriti (in Hindi), K.K. Publications, Allahabad.

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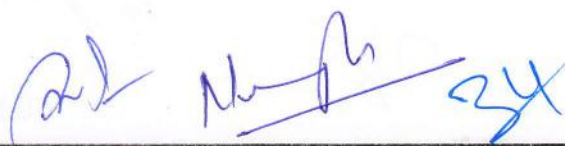
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Page 54 of 68

**School of Studies in Anthropology
Pt. Ravishankar Shukla University, Raipur**

M.A./M.Sc. ANTHROPOLOGY

Semester – IV

January 2022 – June 2022



M.A./M.Sc. ANTHROPOLOGY

**SEMESTER-IV
GROUP - A: PHYSICAL ANTHROPOLOGY
Paper- I Medical Genetics**

**MAX. Marks- 80
MIN. Marks - 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT I

- Medical Genetics: Meaning and scope; Application of Genetics in medicine. Causation of Genetic diseases/Syndrome defects/disorders. Methods in identification of Genetic Diseases: Pedigree method, Twin Method.

UNIT II

- Skin- Ichthyosis, Baldness, Epiloia, the Porphyrias,
- The skeletal system – Marfan's Syndrome, Nail Patella Syndrome, Brachydactyly, Syndactyly, Polydactyly, Ankylosing Spondylitis, Rheumatoid arthritis.

UNIT III

- Spinabifida and anencephaly.
- Osteogenesis imperfecta. Muscle – Muscular dystrophies.
- Eye – Glaucoma, cataract, retinoblastoma. Jaws – Hare lip and palate.
- Ears - Deafness. Alimentary system : Gastric and Duodenal Ulcers, Peptic Ulcers, Cirrhosis of liver

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UNIT IV

- Respiratory system – Cystic fibrosis.
- Cardio Vascular System – Congenital Heart Disease, Coronary Heart Diseases and Hypertension Kidney and Urino-Genital Tract – Polycystic Kidney Disease. Endocrine system – Cretinism, Goiter, Diabetes.

Recommended Readings:

1. Strachan, T. and Read, A.P. 1999. Human Molecular Genetics. BIOS Scientific Publishers Ltd.Oxford. (574.8732, STT H, 84237).
2. Human Genetics by A.G. Motulsky and F. Vogel
3. Medical Genetics by Lynn B. Jorde et al
4. Genetic counseling by Fuhrman and F. Vogel
5. Text book of Human Genetics by Fraser and Mayo
6. Molecular structure of Human Chromosome by J J Y
7. Emery, AEH, Elements of Medical Genetics

M.A./M.SC. ANTHROPOLOGY

**SEMESTER-IV
GROUP - A : PHYSICAL ANTHROPOLOGY
PAPER- II FORENSIC ANTHROPOLOGY**

**MAX. Marks- 80
MIN. Marks – 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT I

Definition, Aims and scope of Forensic Anthropology, Collection and preservation of skeletal remains from crime scene, Assessment of time and cause of Death. Role of Forensic Anthropologist as Expert witness in court.

UNIT II

Establishment of Identity through skeletal remains, Anatomy of Human bones, Determination of Age, sex and ethnic.
Attribution of sex and reconstruction of stature from skeletal remains, human dentition for determination of sex, age and ethnic group.

UNIT-III

Determination in Forensic Anthropology, Identification of finger and sole prints, details of ridge and crease character , analysis of Dermatoglyphic indices, Dermatoglyphic significance in Forensic Science.

UNIT-IV

- Personal Identification through somatometric and somatoscopic observation. Identification through hair, blood stains, Identification through blood, semen, urine and saliva in disputed paternity cases.


Page 58 of 68

Recommended Readings:

1. Introduction to Forensic Anthropology-Surider Nath
2. Action area in Anthropology-A.K.Kalla
3. Bass, W. M. Human Osteology: A Laboratory and Field Manual of the Human Skeleton. 4 the Human Skeleton.Missouri Archaeological Society, 1995.
4. Blau, Soren, and Douglas Ubelaker. Handbook of Forensic Archaeology and Anthropology. Left Coast Press, 2009.
4. Boddington, A., Garland, A. N., and Janaway, R. Death, Decay, and Reconstruction: Approaches to Archaeology and Forensic Science. Manchester University Press, c.1987.
5. Byers, Steven N. Introduction to Forensic Anthropology. 4th ed. Prentice Hall, 2010.
6. Haglund, William D., Marcella H. Sorg, and Diane L. France. Human Remains: Recognition, Documentation, Recovery, and Preservation. CRC Press, c. 2002.
7. Haglund, William D., and Marcella H. Sorg. Advances in Forensic Taphonomy: Method, Theory, and Archaeological Perspectives. CRC Press, c. 2002.
8. Iscan, Mehmet Yasar, and Kennedy, K. A. R. Reconstruction of Life from the Skeleton. Alan Liss, 1989.
9. Komar, Debra, and Jane Buikstra. Forensic Anthropology: Contemporary Theory and Practice. Oxford University Press, 2007.
10. Krogman, Wilton Marion, and Iscan, Mehmet Yasar. The Human Skeleton in Forensic Medicine. Charles C. Thomas, 1986.
11. Steele, D. Gentry, and Bramblett, Claude A. The Anatomy and Biology of the Human Skeleton. 1st ed. Texas A&M University Press, c.1988.
12. Stewart, Thomas Dale. Essentials of Forensic Anthropology. Forward by Ellis R. Kerley. Charles C. Thomas,c1979.
13. Taylor, Karen. Forensic Art and Illustration. CRC Press, 2001.
14. Ubelaker, Douglas H. Human Skeletal Remains: Excavation, Analysis, and Interpretation. 2nd ed. Taraxacum, 1989.
15. White, Tom D., and Pieter A. Folkens. The Human Bone Manual. Academic Press, 2005.

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M.A./M.SC. ANTHROPOLOGY
SEMESTER-IV
GROUP – A AND B
DISSERTATION/ PROJECT WORK

MM-400

In Semester IV (Group-A and Group-B) students are required to undertake a Dissertation/Project work consisting of approximately one-month preparatory work, approximately three –fourth weeks of field investigation, approximately two months for Lab work and / or data analysis and completion of the Dissertation/Project work.

The Dissertation will be selected in consultation with the faculty members decided by Head of the department, according to their specialization. Dissertations/Project work will typically be a document of about 100-150 pages with sections in the following sequence: Introduction, Objectives, Hypothesis (if necessary), Research design/ Methodology, Results, Discussion, Conclusion and Suggestions, Literature cited etc.

Presentation and Viva-Voce of the Dissertation/Project work will be in the presence of External examiner and faculty of the department.

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Chakravarty

M.A./M.SC. ANTHROPOLOGY

SEMESTER-IV

GROUP - B : SOCIAL ANTHROPOLOGY

PAPER-I DISASTER MANAGEMENT, DISPLACEMENT & REHABILITATION

MAX. Marks- 80

MIN. Marks – 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

Unit-I

- Definition of disaster.
- Nature of disaster.
- Anthropological prospective on disaster: Natural and manmade disaster.
- Natural disaster: Causes and classification.
- People's perception of disaster. Folklore of disaster.

Unit-II

- Natural situation of disaster:
1. Floods 2. Epidemics 3. Famines, 4. Earthquakes 5. Fire 6. Cyclones.
- Manmade situation of disaster:
1. Chemical and nuclear leaks 2. Wars 3. Terrorism in India 4. Ethnic conflicts: Naxalism/Maoism.

Unit-III

- Development and Displacement:
1. Dams 2. Roads and Railways 3. Development of cities 4. Establishment of industries 5. National Parks and Sanctuaries 6. Defence projects.

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Unit-IV

- Rehabilitation policies of disaster management,
- Human factor and rehabilitation: Anthropological prospective.
- Group coordination for relocating/ reorganization of religious places.
- Restoration of families and organizing help for shelter, food and medical treatment.

Recommended Readings:

1. Bose, B.P.C. Disaster Policies and Administration: A Study of Three Andhra Disasters
2. Cohen, Stephen P. and C.V. Raghavulu : The Andhra Cyclone of 1977. Individual and Institutional Responses to Mass Death
3. Fernandes, Walter and Enakshi Ganduli Development, Displacement and Rehabilitation.

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M B J

Chakravarty

M.A. / M.SC. ANTHROPOLOGY
SEMESTER-IV-GROUP-B:
SOCIAL ANTHROPOLOGY
PAPER II – DEVELOPMENT ANTHROPOLOGY

MAX. Marks- 80
MIN. Marks – 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

Unit-I

- Development: Meaning and evolution of the concept.
- Indices and measurements of development.
- Development theories and Models.
- Contributions of Anthropology to development studies.
- Development studies contributions to anthropological thought and method.
- Moral/Ethical issues and limitations of Development Anthropology.

Unit-II

- Policy and Planning : Concept of planning, formulation of policy and plan strategy- phases, targets, regions, resources and people; Participatory Approaches in Development, Anthropological perspectives and data in development planning. Conflict in people centered and programme centred paradigms.
- Agencies for development: Governmental and non-government, approaches, models, administration, training man power, peoples participation.

Unit-III

- Evaluation and Impact : Indices and measures; anthropological approaches - assessment of social impact, evaluation of development programmes. Gender issues in development.
- Role of values and institutions in development : Caste, religion and culture : Weber, Bailey, Epstein, Milton Singer and Madan.
- Rural Development in India: Historical Background ; Special programmes and poverty alleviation programmes. Land reforms; Panchayati Raj; Community based organizations.

Unit-IV

- Development of Scheduled Castes: Special component plans. Development of Scheduled caste; Constitutional provisions and safeguards, protective legislation,; structure of tribal development.
- Sustainable development : Environment, natural resources, people concern and needs.
- Case Studies in Development, NGO case studies in different regions. Success stories in cooperative management.

Recommended Readings:

1. Zamora, D. Mario. Perspective on cultural change and Development.
2. Vorhies et al. The Politics of Hunger
3. Rogers Everll, Communication and Development: Critical Perspectives
4. Chambers Robert. Rural Development.
5. Kapoor & Singh. Rural Development Through NGOs
6. Cochrane. Development Anthropology
7. Dalton, George (Ed), Economic Development and Social change
8. Foster, G.M. Traditional Cultures and Impact of Technological change
9. Chansarkar, B.A. Models for Planning in India
10. Krishnamachari, V.T. Community Development in India
11. Tax Sol Anthropology
12. Vidarthi L.P. (Ed). Applied Anthropology in India
13. Upadhyay, V.S. & Pandey Gaya. Vikasatmak Manavvigyan (in Hindi), Madhya Pradesh Hindi Granth Academy, Bhopal
14. Schumacher, E. F. Small is Beautiful

M.A./M.SC. ANTHROPOLOGY
SEMESTER-IV
GROUP – A AND B
DISSERTATION/ PROJECT WORK

MM-400

In Semester IV (Group-A and Group-B) students are required to undertake a Dissertation/Project work consisting of approximately one-month preparatory work, approximately three-four weeks of field investigation, approximately two months for Lab work and / or data analysis and completion of the Dissertation/Project work.

The Dissertation will be selected in consultation with the faculty members decided by Head of the department, according to their specialization. Dissertations/Project work will typically be a document of about 100-150 pages with sections in the following sequence: Introduction, Objectives, Hypothesis (if necessary), Research design/ Methodology, Results, Discussion, Conclusion and Suggestions, Literature cited etc. Presentation and Viva-Voce of the Dissertation/Project work will be in the presence of External examiner and faculty of the department .

Three typed copies of analyzed data is to be submitted in the department in the form of a Dissertation/ Project Report.

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Paul

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Choice Based Paper for Student for Other Disciplines

PAPER: I BASICS IN ANTHROPOLOGY

Credit : 03

MAX Marks : 80

MIN Marks: 27

UNIT-I

- Anthropology: Definition, Branches
- Man's Place among Primates.
- Primate: Definition, Evolutionary trends.
- Blood Groups: Types, Distribution, Inheritance.

UNIT – II

- Archaeology: Definition, Branches, Objectives
- Outline of Indian Archaeological Cultures
- Tool Technology

UNIT-III


- Tribe: Definition & Characteristics Features
- Culture: Meaning, Definition & Characteristics
- Ethnographic Methods.

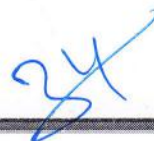
Recommended Readings:

1. Barnouw, V. 1979. Anthropology: A General Introduction, The Dorsey Press, Illinois.
2. Holmes, L. D. Anthropology: An Introduction, The Ronald Press Company, New York.
3. Sharma and Sharma. 1997. Anthropology, Atlantic Publishers and Distributors, New Delhi.
4. Hunter & Whitten. The Study of Cultural Anthropology, Harper & Row Publishers, New York.
5. Moore, A. 1978. Cultural Anthropology, Harper & Row Publishers, New York.
6. Kaplan, D. & Manners, R. A. Culture Theory, Prentice Hall of India Private Ltd., New Delhi.
7. Comas, J. 1960. Manual of Physical Anthropology, Springfield, Charles C. Thomas.
8. Sarkar, R. M. 1976. Fundamentals of Physical Anthropology. Blackie (India).
9. Das, B. M. 1985. Outlines of Physical Anthropology, Kitab Mahal, New Delhi.

10. Shrivastav, A. R. N. 1994. Sharirik Manav Vigyan (in Hindi), Gyandeeep Prakashan, Allahabad.
 11. A grawal, D.P. & M.G. Yadava. 1995. Dating the human past.
 12. Bhattacharya, D.K. 1977. Palaeolithic Europe.
 13. Bordes, F. 1968. The Old Stone age. Weidenfeld and Nicolson.
 14. Burkitt, M.C. 1969. Old Stone Age: Study of Palaeolithic Times.
 15. Campbell, B. C. 1979. Humankind emerging, II edition.
 16. Goode & Hatt. Methods in Social Research.
 17. Young, P. V. Scientific Social Surveys and Research.
 18. Danda, Ajit. Research Methodology in Anthropology, Inter- India, New Delhi.
 19. Gupta, S. P. Statistics Methods.
 20. Elhance, D. N. Practical Problems in Statistics, Kitab Mahal, Allahabad.
 21. Levin, J. Elementary Statistics in Social Research.
 22. Sarin, S.S. and Balchandani, M.K. Fundamentals of Statistics. Ratan Prakashan Mandir, Agra.
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Choice Based Paper for Student for Other Disciplines

PAPER - II: APPLICATIONS OF ANTHROPOLOGY

Credit : 03

MAX Marks : 80

MIN Marks: 27

UNIT-I

- Applied Biological Anthropology.
- Applications of Human Genetics.

UNIT - II

- Nutritional Anthropology.
- Anthropology of Sports.
- Applied anthropology in industry.
- Applied anthropology in education.

UNIT-III

- Applied Social Anthropology
- Action Anthropology.

Recommended Readings:

1. Kroeber. Anthropology Today.
2. Curt Stern. 1968. Principles of Human Genetics. Eurasia Publishing House (Pvt.) Ltd., Ram Nagar, New Delhi-1(India).
3. Steine. Biosocial Genetics.
4. Karp, E. Genetic Engineering.
5. Bodmer and Cavalli-Sforza. Genetics of Human Populations.
6. Backer, PT and Weiner (Eds). The Biology of Human Adaptability.
7. Beal, Virginia, Nutrition and the Life Span
8. Craig, Human Development
9. Eveleth, PB and Tanner, JM Worldwide Variation in Human Growth
10. Forbes, GB, Human Body Composition
11. Sodhi, HS, Sports Anthropology
12. Willigt, JV, Applied Anthropology: An Introduction
13. Stern, C., Principles of Human Genetics.
14. Shukla, B.R.K. & Rastogi, S., Physical Anthropology and Human Genetics An Introduction.
15. McKusick, V.A., Human Genetics.

**SYLLABUS
OF
MA/M.Sc. ANTHROPOLOGY
ENTRANCE EXAM**

UNDER

FACULTY OF LIFE SCIENCE

Time: 2.00 hrs

Maximum Marks: 100

*(Multiple choice questions 30X2 = 60 Marks
Short answer type questions 08X05 = 40 Marks)*

1. Introduction to Chhattisgarh

- 1.1 History of Chhattisgarh
- 1.2 Demography of Chhattisgarh
- 1.3 Geography of Chhattisgarh
- 1.4 Tribal Community of Chhattisgarh
- 1.5 Culture of Chhattisgarh

2. General Anthropology

- 2.1 Meaning, Definition and Branches of Anthropology
- 2.2 Physical Anthropology: Human Evolution, Darwinism, Lamarkism, Blood Groups.
- 2.3 Archaeology: Terminology, Exvation and Exploration.
- 2.4 Social-cultural Anthropology: Culture, Society and Community.
- 2.5 Basics of Bio-statistics

Recommended Readings:

1. Barnouw, V. 1979. Anthropology: A General Introduction, The Dorsey Press, Illinois.
2. Holmes, L. D. Anthropology: An Introduction, The Ronald Press Company, New York.
3. Sharma and Sharma. 1997. Anthropology, Atlantic Publishers and Distributors, New Delhi.
4. Hunter & Whitten. The Study of Cultural Anthropology, Harper & Row Publishers, New York.
5. Moore, A. 1978. Cultural Anthropology, Harper & Row Publishers, New York. Barnouw,

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6. V. 1979. Anthropology: A General Introduction, The Dorsey Press, Illinois.
7. Holmes, L. D. Anthropology: An Introduction, The Ronald Press Company, New York.
8. Sharma and Sharma. 1997. Anthropology, Atlantic Publishers and Distributors, New Delhi.
9. Hunter & Whitten. The Study of Cultural Anthropology, Harper & Row Publishers, New York.
10. Moore, A. 1978. Cultural Anthropology, Harper & Row Publishers, New York.
11. Kaplan, D. & Manners, R. A. Culture Theory, Prentice Hall of India Private Ltd., New Delhi.
12. Comas, J. 1960. Manual of Physical Anthropology, Springfield, Charles C. Thomas.
13. Sarkar, R. M. 1976. Fundamentals of Physical Anthropology. Blackie (India).
14. Das, B. M. 1985. Outlines of Physical Anthropology, Kitab Mahal, New Delhi.
15. Shrivastav, A. R. N. 1994. Sharirik Manav Vigyan (in Hindi), Gyandeeep Prakashan, Al'ahabad.
16. A grawal, D.P. & M.G. Yadava. 1995. Dating the human past.
17. Bhattacharya, D.K. 1977. Palaeolithic Europe.
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20. Campbell, B. C. 1979. Humankind emerging, II edition.
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26. Levin, J. Elementary Statistics in Social Research.

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