

**B.A./B.Sc. Anthropology**

**Syllabus and Schema of Examination**

**Under**

**Choice Based Credit System (CBCS)**

(Applicable <sup>for</sup> ~~from~~ the Academic Session <sup>2016-17</sup> ~~2015-16~~ ~~2014-15~~)

**MPC Autonomous College, Baripada**

<sup>&</sup>  
D.D. Auto college, Keonjhar

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24/6/16

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### Practical (Any two)

1. **Craniometry:** Maximum cranial length  
Maximum bizygomatic breadth  
Minimum frontal breadth  
Nasal breadth  
Greatest occipital breadth  
Cranial index  
Maximum cranial breadth  
Maximum frontal breadth  
Nasal height  
Bi-mastoid breadth  
Upper facial height  
Nasal index
2. **Osteometry:** Measurements of long bones: lengths, minimum/least circumference and caliber index
3. Identification of casts of fossils of family Hominidae: Drawing and comparison of characteristics.

### Suggested Readings

1. Buettner-Janusch, J. (1966). *Origins of Man: Physical Anthropology*. John Wiley & Sons, Inc., New York, London, Sydney.
2. Conroy, G.C. (1997). *Reconstructing Human Origins: A Modern Synthesis*. W. W. Norton & Company, New York, London.
3. Howell F.C. (1977). *Horizons of Anthropology*. Eds. S. Tax and L.G. Freeman, Aldine Publishing House, Chicago.
4. Nystrom P. and Ashmore P. (2011). *The Life of Primates*. PHI Learning Private Limited, New Delhi.
5. Seth P. K. and Seth S. (1986). *The Primates*. Northern Book Centre, New Delhi, Allahabad.
6. Singh I. P. and Bhasin M.K. (1989). *Anthropometry: A Laboratory Manual on Biological Anthropology*. Kamla-Raj Enterprises, Chawri Bazar, Delhi.

## CORE COURSE, SEMESTER-III

C.5-Tribes and Peasants in India, Full Marks: 100  
Credits-6(Theory 4+Practical 2)

75 Marks Theory (Mid Sem.15+End Sem.60)  
25 Marks Practical End Sem

All Units Carry Equal Marks

Duration of Examination: 03 Hours (End Sem.Theory), Practical= 3/6 Hours

### Theory

**Unit I:** Definition and Concept of Tribe; Problems of nomenclature, distribution and classification; Features of tribes in India.

**Unit II:** Tribes in India. The history of tribal administration; Constitutional safeguards; Draft National Tribal Policy, Issues of acculturation assimilation and integration;

**Unit III:** Concept of Indian Village; The concept of peasantry; Approaches to the study of peasants – economic, political and cultural. Characteristics of Indian village: social organization; economy and changes. Caste system and its changes in the Indian society.

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**Unit IV:** Ethnic problems and quest for identity formation; Ethnic movements in India: Naga movement, Bodo movement, Gorkha movement etc.

**Unit V:** Agrarian Unrest in Odisha (Kol rebellion, kondh rebellion, Surendra sai, Dharanidhar, etc). Peasant Movements in India.

### Practical

Reading of Ethnography: Students are required to read and analyze any two of the ethnographies (as listed below) and prepare a report based upon it. The report should clearly link up the study with the concept of tribe and peasantry and delineate clearly the concept used in the text.

1. Research questions/objectives of the study and their relevance.
2. Theoretical schema.
3. Methods and techniques used in the study.
4. Key findings and their significance in the context of the objectives of the study.
5. Critical analysis of the finding on the basis of contemporary available resources.

### List of Ethnographies:

- Walker A. (1986). *The Todas*. Delhi : Hindustan Publishing Corporation Verrier Elwin (1992). *The Muria and their Ghotul*. USA: Oxford University Press.
- Malinowski M. (1922). *Argonauts of the Western Pacific*. London: Routledge and Kegan Paul Ltd.
- Furer-Haimendorf C.V. (1939). *The Naked Nagas*. London: Methuen and Co.
- Evans-Pritchard E.E. (1940). *The Nuer: A Description of the Modes of Livelihood and Political Institutions of a Nilotic People*. Oxford : Clarendon Press.
- Majumdar D. N. (1950). *Affairs of tribes*. Lucknow: Universal Publishers Ltd.
- Dube S.C. (1955). *Indian Village*. London: Routledge and Kegan Paul Ltd.
- Berreman G.D. (1963). *Hindus of the Himalayas*. Berkeley: California University Press.

### Suggested Readings

1. Gupta D. (1991). *Social Stratification*. Oxford University Press: Delhi.
2. Madan V. (2002). *The Village in India*. Oxford University Press: Delhi.
3. Nathan D. (1998). *Tribe-Caste Question*. Simla: IAS.
4. National Tribal Policy (draft). (2006). Ministry of Tribal Affairs. Government of India.
5. Patnaik S.M. (1996). *Displacement, Rehabilitation and Social change*. Inter India Publication, Delhi.
6. Shah G. (2002). *Social Movement and the State*. Delhi: Sage.
7. Shanin T. (1987). *Peasants and Peasantry*. New York, Blackwell.
8. Vidyarthi L.P. and Rai B.K. (1985) *Tribal Culture in India*, New Delhi, Concept Publishing Company.
9. Wolf E. (1966). *Peasants*. NJ, Prentice Hall.

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## C.6-Human Ecology

Full Marks: 100, Credits-6(Theory 4+Practical 2)  
75 Marks Theory (Mid Sem.15+End Sem.60)  
25 Marks Practical End Sem

All Units Carry Equal Marks

Duration of Examination: 03 Hours (End Sem.Theory), Practical= 3/6 Hours

### Theory

**Unit 1:** Concepts in Ecology: Definition, ecosensitivity adaptation, acclimation, acclimatization, biotic and abiotic component.

**Unit II:** Methods of studying human ecology. Adaptation to various ecological stresses: heat, cold and high altitude; Ecological rules and their applicability to human populations.

**Unit III:** Culture as a tool of adaptation; Various modes of human adaptation in pre-state societies; (i) Hunting and food gathering (ii) Pastoralism and (iii) Shifting cultivation and Agriculture and peasantry.

**Unit VI:** Ecological themes of state formation: i. Neolithic revolution, ii. Hydraulic Civilization, Impact of urbanization and industrialization on Man.

**Unit V:** Cultural Ecology: Meaning and Scope; Anthropological Ecology and Ecological Anthropology ; Ecosystem, Eco-niche and Habitat.

### Practical

#### Biological Dimensions

##### *Size and Shape Measurements*

- |                                 |                                 |
|---------------------------------|---------------------------------|
| 1. Stature                      | 5. Total Lower Extremity Length |
| 2. Sitting Height               | 6. Nasal Breadth                |
| 3. Body Weight                  | 7. Nasal Height                 |
| 4. Total Upper Extremity Length |                                 |

##### *Size and Shape Indices (Any two)*

- |                            |  |
|----------------------------|--|
| 1. Body Mass Index         | 4. Relative Upper Extremity Length       |
| 2. Ponderal Index          | 5. Relative Total Lower Extremity Length |
| 3. Relative Sitting Height | 6. Nasal Index                           |

#### Cultural Dimensions

1. Make a research design pertaining to any environmental problem and do a project based on it.

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### Suggested Reading

1. Human ecology: bio cultural adaptation in human communities. (2006) Schutkowski, H. Berlin. Springer Verlag.
2. Human ecology and cognitive style: comparative studies in cultural and physical adaptation. (1976). Berry, J.B. New York: John Wiley.
3. Human ecology. (1964) Stapledon. Faber & Faber.
4. Studies in Human Ecology. (1961) Theodorson, G.A. Row, Peterson & Company Elmsford, New York.
5. Human ecology: (1973) Problems and Solutions. Paul R. Ehrlich, Anne H. Ehrlich and John P. Holdress. W.H. Freeman & Company, San Francisco.
6. Cohen, Yehudi A. 1968. Man in adaptation; the cultural present. Chicago: Aldine Pub. Co.
7. Redfield, Robert. (1965). Peasant society and culture an anthropological approach to civilization. Chicago [u.a.]: Univ. of Chicago Press.
8. Symposium on Man the Hunter, Richard B. Lee, and Irven DeVore. 1969. Man the hunter. Chicago: Aldine Pub. Co.
9. Dave Decksha & S.S. Katewa (2012). Text Book of Environmental Studies. Cengage Learning India Pvt. Ltd., Delhi
10. Eugene P. Odum and Gary W. Barrett (2004). Fundamentals of Ecology. Cengage Learning; 5 edition.

### C.7-Biological Diversity in Human Populations

Full Marks: 100, Credits-6(Theory 4+Practical 2)  
75 Marks Theory (Mid Sem.15+End Sem.60)  
25 Marks Practical End Sem

All Units Carry Equal Marks

Duration of Examination: 03 Hours (End Sem.Theory), Practical= 3/6 Hours

#### Theory

**Unit I:** Concept of Biological Variability; Race, Hardy-Weinberg Law; Sources of Genetic Variation; Structuring Genetic Variation; Interpretation of Human Variation, Genetic Polymorphism (Serological, Biochemical and DNA Markers).

**Unit II:** Role of Bio-cultural Factors: Human Adaptability Cultural Biology; Bio-cultural factors influencing the diseases and nutritional status; Evolution of Human diet, biological perspectives of ageing process among different populations.

**Unit III:** Demographic Perspective and Demographic Anthropology; Sources of Demographic Data, Demographic Processes, Demographic profile of Indian populations and its growth structure.

**Unit IV:** Inbreeding and Consanguinity – Biological consequences of inbreeding, frequency of inbreeding in world populations; Methods of counseling.

**Unit V:** Genetic diversity among Indian Population; ~~A critical appraisal of contribution of Risley, Guha, Rickstett and Sarkar towards understanding ethnic elements in the Indian populations.~~

Application of human genetics for human welfare

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### Practical (Any Two)

1. Craniometric Measurements (Skull & Mandible)
2. Determination of ABO and Rh blood groups of ten subjects.
3. Analysis and interpretation of finger ball pattern types, palmer main lines and pattern index; Finger print classification and development of chance prints and statistical treatment of the data collected (Ten Subjects)
4. Collection of demographic data from secondary sources.

### Suggested readings:

1. Baker P.T. and J.S. Weiner (ed.) (1996) *The Biology of Human Adaptability*. Oxford & New York, Oxford University Press.
2. Bhende A. and T. Kantikar (2006) *Principles of Population Studies*. Himalayan Publishing House, Mumbai
3. Bogin B. (1999). *Pattern of Human Growth*. 2nd edition CUP.
4. Cameron Noel and Barry Bogin (2012) *Human Growth and development*. Second edition, Academic Press Elsevier.
5. Eckhardt R.B.(1979) *The Study of Human Evolution*. McGrand Hill Book Company, USA.
6. Frisancho R. (1993) *Human Adaptation and Accommodation*. University of Michigan press
7. Harrison G.A., Tanner, J.M., Pilbeam, D.R., Baker, P.T. (1988) *Human Biology*. Oxford University Press.
8. Jurmain Robert Lynn kilgore Wenda Trevathan and Ciochon (2010). *Introduction to Physical Anthropology*. Wadsworth Publishing, USA.
9. Kapoor A.K. and Satwanti Kapoor (ed) (1995). *Biology of Highlanders*. Jammu, Vinod Publisher & Distributor.
10. Kapoor A.K. and Satwanti Kapoor (eds) (2004) *India's Elderly-A Multidisciplinary Dimension*. Mittal Publication, New Delhi.
11. Klepinge L.L. (2006). *Fundamentals of Forensic Anthropology*. John Willey & Sons., New Jersey.
12. Malhotra K.C. and B. Balakrishnan(1996) *Human Population Genetics in India*.
13. Malina Robert M., Claude. Bouchard, Oded. Bar-Or. (2004) Growth, and Physical Activity. *Human Kinetics*.
14. Stanford C., Allen, S.J. and Anton, C.S. (2013). *Biological Anthropology*. 3rd edition, Pearson, USA.

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## CORE COURSE, SEMESTER-IV

### C.8-Theories of Culture and Society

Full Marks: 100, Credits-6(Theory 4+Practical 2)  
75 Marks Theory (Mid Sem.15+End Sem.60)  
25 Marks Practical End Sem

All Units Carry Equal Marks

Duration of Examination: 03 Hours (End Sem.Theory), Practical= 3/6 Hours

#### Theory

**Unit I:** Emergence of Anthropology: Interface with evolutionary theory and colonialism, Diffusionism and Culture area theories.

**Unit II:** Early theories on the study of Culture: Classical and Neo-Evolutionism.

**Unit III:** Emergence of Fieldwork tradition; Historical Particularism, American Cultural Tradition.

**Unit IV:** Durkheim and Social integration; Functionalism and Structural-functionalism and British Social Anthropology.

**Unit V:** Structuralism: Claude Levi-Strauss and Edmund Leach; Symbolism and Interpretative approach.

#### Practical

As a part of the practical following exercises will be undertaken by the students so as to enable them to connect the theories they learn with things of everyday living.

1. To identify a topic relating to contemporary issue and formulate research questions and clearly identify the theoretical perspectives from which they are derived.
2. Identification of variables of a study.
3. Various types of hypotheses.
4. Formulation of hypothesis.
5. Distinction between hypothesis testing and exploratory research.
6. Identification of universe and unit of study with justifications.
7. Choice of appropriate research technique and method in the context of theoretical framework.
8. Data collection and analysis

#### Suggested Readings

1. Applebaum H.A. (1987) *Perspectives in Cultural Anthropology*. Albany: State University of New York.
2. Barnard A. (2000). *History and Theory in Anthropology*. Cambridge: Cambridge University.
3. McGee R.J. and Warms R.L. (1996) *Anthropological Theories: An Introductory History*.
4. Moore M. and Sanders T. (2006). *Anthropology in Theory: Issues in Epistemology*, Malden, MA: Blackwell Publishing.

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## C .9- Human Growth and Development

Full Marks: 100, Credits-6(Theory 4+Practical 2)  
75 Marks Theory (Mid Sem.15+End Sem.60)  
25 Marks Practical End Sem

All Units Carry Equal Marks  
Duration of Examination: 03 Hours (End Sem.Theory), Practical= 3/6 Hours

### Theory

**Unit I:** Concept of human growth, development, differentiation and maturation; Evolutionary perspective on human growth (including living primates and fossil human ancestors).

**Unit II:** Prenatal (conception till birth) and postnatal (birth till senescence) period of growth, pattern of normal growth curves, variation from normal growth (canalization, catch-up growth and catch-down growth), ethnic and gender differences in growth curves, secular trend.

**Unit III:** Bio-cultural factors (genetic, social, and ecological factors) influencing patterns of growth and variation, methods and techniques to study growth, significance/ applicability of growth studies.

**Unit IV:** Nutritional epidemiology-concept of balanced diet, impact of malnutrition (over and under) with special reference to obesity, Kwashiorkor and Marasmus. Assessment of nutritional status.

**Unit V:** Human physique and body composition – models and techniques; gender and ethnic differences; Somatotyping and human physique with reference to Sheldon, Parnell, Heath and Carter methods.

### Practical (Any two)

1. Growth status: Somatometry (stature, body weight, mid upper arm circumference etc), assessment of chronological age, percentile, z-score, height for age, weight for age, BMI for age
2. Obesity assessment: General (BMI, body fat %, Conicity index, body adiposity indices) and regional adiposity indices (WC, WHR, WHtR)
3. Estimation of body composition (fat percentage and muscle mass) with skinfold thickness and bioelectric impedance
4. Nutritional assessment through dietary pattern and anthropometric indices

### Suggested Readings

1. Bogin B. (1999) Patterns of human growth. Cambridge University Press.
2. Frisancho R. (1993) Human Adaptation and Accommodation. University of Michigan Press.
3. Cameron N and Bogin B. (2012) Human Growth and Development. Second edition, Academic press Elsevier.
4. Harrison GA and Howard M. (1998). Human Adaptation. Oxford University Press.
5. Harrison GA, Tanner JM, Pibeam DR, Baker PT. (1988). Human Biology. Oxford University Press.
6. Jurmain R, Kilgore L, Trevathan W. Essentials of physical anthropology. Wadsworth publishing.
7. Kapoor AK and Kapoor S. (1995) Biology of Highlanders. Vinod Publisher and Distributor.
8. Kathleen K. (2008). Encyclopedia of Obesity. Sage.
9. Malina RM, Bouchard C, Oded B. (2004) Growth, Maturation, and Physical Activity. Human Kinetics.
10. McArdle WD, Katch FI, Katch VL. (2001) Exercise Physiology: Energy, Nutrition, and Human

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Performance.

11. Singh I, Kapoor AK, Kapoor S. (1989). Morpho-Physiological and demographic status of the Western Himalayan population. In Basu and Gupta (eds.). Human Biology of Asian Highland Populations in the global context.

12. Sinha R and Kapoor S. (2009). Obesity: A multidimensional approach to contemporary global issue. Dhanraj Publishers, Delhi.

### C.10-Research Methods

Full Marks: 100, Credits-6(Theory 4+Practical 2)  
75 Marks Theory (Mid Sem.15+End Sem.60)  
25 Marks Practical End Sem

All Units Carry Equal Marks

Duration of Examination: 03 Hours (End Sem.Theory), Practical= 3/6 Hours

#### Theory

**Unit I:** Field work tradition in Anthropology; Ethnographic approach: contribution of Malinowski, Boas and other pioneers; etic and emic perspectives, comparative and historical methods, techniques of field work.

**Unit II:** Research Design; Review of literature, conceptual framework, formulation of research problem, formulation of hypothesis, sampling, tools and techniques of data collection: Survey method, Observation, Questionnaire, Schedule, Interview, Case study, Life history and Genealogy.

**Unit III:** Ethics and Politics of Research Identify, define, and analyze ethical issues in the context of human subject research; Ethical importance of consent, privacy and confidentiality in research; Issues of academic fraud and plagiarism, conflicts of interest, authorship and publication.

**Unit IV:** Bio-Statistics; Guiding ideals and critical evaluation of major approaches in research methods, basic tenets of qualitative research and its relationship with quantitative research; Types of variables, Presentation and summarization of data (tabulation and illustration).

**Unit V:** Descriptive statistics- Measurers of Central Tendency, Measure of Variation, Skewness and Kurtosis, Variance and standard deviation, Normal and binomial distribution; Tests of Inference- Variance ratio test, Student's 't' tests, Chi-square test.

#### Practical

1. Construction of Genealogy & Pedigree Analysis.
2. Observation: Direct, Indirect, Participant, Non-participant, Controlled
3. Questionnaire and Schedule, Interview- Unstructured, Structured, Key informant interview, Focussed Group Discussion, and Free listing, pile sorting
4. Case study and life history

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### Suggested Readings

- Garrard E and Dawson A. What is the role of the research ethics committee? Paternalism, inducements, and harm in research ethics. *Journal of Medical Ethics* 2005; 31: 419-23.
- Bernard H.R. *Research Methods in Anthropology, Qualitative and Quantitative Approaches*. Jaipur: Rawat Publications. 2006.
- Madrigal L. *Statistics for Anthropology*. Cambridge: Cambridge University Press. 2012.
- Zar JH. *Biostatistical Analysis*. Prentice Hall. 2010.
- Michael A. *The Professional Stranger*. Emerald Publishing. 1996.
- Bernard R. *Research Methods in Anthropology: Qualitative and Quantitative Approaches*. AltaMira Press. 2011.
- Emerson RM, Fretz RI and Shaw L. *Writing Ethnographic Fieldnotes*. Chicago, University of Chicago Press. 1995.
- Lawrence NW. *Social Research Methods, Qualitative and Quantitative Approaches*. Boston: Allyn and Bacon. 2000.
- O'reilly K. *Ethnographic Methods*. London and New York: Routledge. 2005.
- Patnaik S.M. *Culture, Identity and Development: An Account of Team Ethnography among the Bhil of Jhabua*. Jaipur: Rawat Publications. 2011.
- Peltó PJ and Peltó GH. *Anthropological Research, The Structure of Inquiry*. Cambridge: Cambridge University Press. 1978.
- Sarantakos S. *Social Research*. London: Macmillan Press. 1998.

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