

# **COURSES OF STUDIES**

**FOR**

**MASTER DEGREE COURSE**

**IN**

**ANTHROPOLOGY**

Part – I Examination – 2016-17

Part – II Examination – 2017-18



**GOVERNMENT AUTONOMOUS COLLEGE,  
PHULBANI, KANDHAMAL**

The P.G. Anthropology course shall comprise TWO Parts, each Part consisting of four theory papers and two practical papers. Each theory paper carries 75 (seventy five) marks. Alternative questions shall be set from each unit. The candidates shall have to answer questions from all the units. The duration of the examination of each theory paper shall be four hours and practical paper is six hours.

**COURSE STRUCTURE**

<b><u>Part-I</u></b>	<b><u>Subject</u></b>	<b><u>Full Marks</u></b>
Paper-I	Social Anthropology	75
Paper-II	Physical Anthropology	75
Paper-III	Pre-Historic Anthropology	75
Paper-IV	Anthropological Thought and Research Methodology	75
Paper-V	Practical	100
Paper-VI	Practical	100
<b><u>Part-II</u></b>		
Paper-VII	Indian Society and Civilization	75
Paper-VIII	Demography, Human Ecology and Applied Anthropology	75
	<i>Optional Paper(Group-A)</i>	
Paper-IX	Advanced Social Anthropology	75
Paper-X	Advanced Social Anthropology	75
	<i>Optional Paper (Group-B)</i>	
Paper-IX	Advanced Physical Anthropology	75
Paper-X	Advanced Physical Anthropology	75
Paper-XI	Practical	100
Paper-XII	Practical (Special paper)	100

## M.A. PART-I

### PAPER – I: SOCIAL ANTHROPOLOGY

Full Marks - 75

- Unit - I** **15 Marks**  
Meaning & Scope of anthropology, Branches of Anthropology. Scope of Social Anthropology: its relationship with other branches of Anthropology & other social sciences.
- Unit - II** **15 Marks**  
Family - Features, Classification & Function.  
Marriage - Types, Selection of mates, cross-cousin, Parallel Cousin, Levirate, Sororate etc, Dowry & Bride price.  
Kinship - kins - consanguine, affinal, kindred - Tribe, clan, moiety, phratry.  
Types of descent & residence, kinship behaviour - jocking & avoidance relationship.
- Unit – II** **15 Marks**  
Status & role, Caste system in India, Caste & Class. Status of woman (Gender study)
- Unit - IV** **15 Marks**  
Economic Organization :  
Primitive Economic organization. Barter and ceremonial exchange. Stages of economy - collection, hunting, fishing, pastoralism, cultivation-shifting & settled. Primitive Law & Justice.
- Unit - V** **15 Marks**  
Primitive Religion - animism, animatism, bonogism, totemism.  
Magic - Functions & types  
Magico - religious functionaries - Shaman, priest, medicine man, Sorcerer, witch.  
Difference between magic, science & religion.

**Books Recommended :**

1. Introduction to Sociology - Rai, Ruming - Himalay Pub. House.

### PAPER – II: PHYSICAL ANTHROPOLOGY

Full Marks - 75

- Unit - I** **15 Marks**  
Meaning, scope & relations with biological & medical sciences, History and development of physical anthropology.
- Unit - II** **15 Marks**  
Man's place in animal kingdom, Comparative anatomy of man & ape, Hominid evolution: erect posture & bi-pedalism.
- Unit - III** **15 Marks**  
Organic Evolution & Genetics – Lamarckism, Darwinism, Synthetic Theory
- Unit - IV** **15 Marks**  
Emergence of man; Fossil evidences, Pongid & Hominid, Australopithecines, Homo erectus, Neanderthal & Homo sapiens.
- Unit - V** **15 Marks**  
Human growth: stages of Growth, Nutrition & Development. Factors affecting growth. Methodology for growth studies.

**Books Recommended :**

1. E. Hooton: Up from the Ape
2. M.F. Ashley Montagu: An Introduction to Anthropology
3. Buettner Janush: Origin of Man
4. S.L. Washburn and Phiyecs C. Jey: (Ed) Perspectives on Human Evolution
5. S.L. Washburn : Classification and human Evolution
6. Le Gros Clerk: History of Primates

7. Le Gros Clerk: Early Forerunners of Man
8. E.L. Simon: Primate Evolution :An Introduction to man's place in nature.
9. J. Comas: Manual of Physical Anrtropology
10. Joseph Birdsell: Human Evolution : An Introduction to Physical Anthropology
11. F. Mayca: Animal species and Evolution
12. D. Pilbaum: The Ascent of man. An Introduction to Human Evolution.
13. Welner J.S.: Man's Natural history
14. W.W. Howells: Evolution of genus Homo
15. J.R. Napler and P.H : A Hand Book of Living
16. Napler : Primates
17. T.K. Penniman: Hundred Years of Anthropology
18. J. Janusch :(Ed) Evolutionary and Genetic Behaviour and Biology of Primates Vol-I

### **PAPER – III: ARCHAEOLOGICAL ANTHROPOLOGY**

**Full Marks - 75**

#### **Unit - I**

**15 Marks**

Definition & division of prehistory. Methods of study of prehistory, Relationship to other branches Anthropology – earth sciences, physical sciences, life science & social science.

#### **Unit - II**

**15 Marks**

A brief outline on the origin of earth & life & geological time scale, Study of environment – vegetation, fauna, soil & geomorphology. Quarternary chronology.

#### **Unit - III**

**15 Marks**

Dating methods: absolute & relative dating – Astronomical dating, dendrochronology, thermo – luminescence dating, pollen dating, value analysis, potassium – argon method, Fluorine dating & C-14 dating.

#### **Unit - IV**

**15 Marks**

Cultural Chronology – Palaeolithic, Mesolithic & Neolithic cultures of India.

#### **Unit - V**

**15 Marks**

Proto – historic period with special references to Indus Valley Civilization.  
Copper & Iron age in India.  
Megalithic monument in India

#### **Books Recommended :**

1. Alchin and Alchin Birth of Indian Civilization
2. Glyn Daniel Idea and Development of Prehistory
3. Grank J.D. Archaeology and Society
4. Hole F. & Heizer R.F. An Introduction to Prehistoric Archaeology
5. Karl Butzer Geomorphology from the Early
6. Karl Butzer Environment and Archaeology
7. Glyn Daniel Hundred and fifty years of Archaeology
8. D.P. Agrawal &
9. D. Chakravarty (Ed) Essay on Indian Prehistory
10. Zeuner F.E. The Pleistocene Period
11. Zeuner F.E. Dating the Past
12. Zeuner F.E. The Pleistocene Period
13. Zeuner F.E. Dating the Past

### **PAPER –IV: ANTHROPOLOGICAL THOUGHT AND RESEARCH METHODOLOGY & STATISTICS**

**Full Marks - 75**

#### **Unit - I**

**15 Marks**

Emergence of Anthropology as an empirical discipline. Natural Science and natural history in Anthropology. Anthropology as a social science.

**Unit - II**

**15 Marks**

Field work tradition in Anthropology Social research & values.

Research Methods : Ethnography, Comparative method, Participant observation, genealogical method, case study, survey.

**Unit - III**

**15 Marks**

Research design : Review of literature, aims & objectives of hypothesis.

Techniques of data collection –

- a) Primary sources – Questionnaire, interview, observation, life history, schedule.
- b) Secondary sources – Census, documents, records, maps, reports etc.

**Unit - IV**

**15 Marks**

Statistical Methods :

Sampling, classification & tabulation of data, variables, univariate, bivariate & multivariate analysis, sociometry.

**Unit - V**

**15 Marks**

Report Writing:

Research report, diagram & graphs. Study of community life – rural & urban.

Research & theory.

Approaches of social research – emic, etic & micro, macro

**Books Recommended :**

1. Seltiz, Johoda, Deursch Cook: Research Methods
2. Derverger, M: Introduction to Social Survey & Research
3. Moser C.A.: Survey Methods in Social Investigation
4. Gode, W & Hatt P. Pelto: P.J. Methods in Social Research : Anthropological Research, the Structure of Inquiry
5. Epstein, A.L.: (Ed) The Cratt of Social Structure
6. Junker. B: Field work
7. Merton, R.K.: Social Theory and Social Structure
8. Norroll, R & Cohen, R.A.: A Hand book of Method in cultural Anthropology
9. Nadel, S.F.: Foundation of Social Anthropology
10. Glturg, J: Theories and methods of Social Research
11. Nicholas, Ralpla W: Suggestion for future anthropology or research in South Asia
12. Sarana, G.: Anthropology method and Indian Anthropology.

**PAPER-V : PRACTICAL**

**Full Marks - 100**

Duration - 6 hrs

- A) Somatometry, Somatoscopy and indices.
- B) Prehistory
- C) Statistics
- D) Practical Records
- E) Viva-voce

**A. Somatometry, Somatoscopy and indices:**

Candidates shall be familiar with the procedure of handling instruments & with the descriptive terms used for the following measurements and observation on ten individuals.

Height Vertex, Height Tragus, Height Acromion, Height Radiale, Height Stylium, Height Dactylion, Sitting Height, Bi-acromial Breadth, Bitrochanteric Breadth, Maximum head breadth, Minimum frontal breadth, Bi-auricular Breadth, Breadth of Bizygomatic Arc, Bigonial breadth, Morphological Facial height, Morphological super facial height, Nasal height, Nasal breadth, Horizontal circumference of the head. Upper Facial profile angle. Total Arm length.

Somatoscopic Observations on Skin, hair, eye, nose, lip, ear, chin and prognathism.

Classification and indices: Candidates shall be familiar with the procedure of classification and calculation of the following indices as prescribed by the department.

INDICES : 1. Cephalic index or length-Breadth Index, 2. Length-Height Index, 3. Breadth-Height Index, 4. Morphological Index, 5. Nasal Index, 6. Upper extremities stature Index.

**B. Prehistory:**

**15 Marks**

Candidates shall draw, describe and identify the prehistoric tools or models.

- C. Statistics:** **15 Marks**  
Measurement of Central Tendency: Mean, mode, Median.  
Measurement of Dispersion: Standard Deviation, correlation and Association, coefficient of variation, coefficient correlation.  
Tests of Significance: Chi-square Test, t-test, Summarization of Data: qualitative and quantitative.

- D. Practical record:** **10 Marks**  
Candidates shall regularly maintain practical records under the supervision of the class teacher in charge of its practical class.

- E. Viva-Voce** **10 Marks**

**Books Recommended :**

- Singh I.P. and Bhasin M.K. – Anthropology  
Saarkar, S.S. – Laboratory Manual of Somatology  
Sankalia , H.D. – Stone Age Tools

**PAPER – VI : PRACTICAL**

**Full Marks - 100**  
Duration - 6 hrs

- A) Craniometry and mandibulometry
- B) Osteometry
- C) Dermatoglyphics
- D) Serology
- E) Practical Records
- F) Viva-voce

**A. Craniometry and mandibulometry :**

Candidates shall be familiar with the procedure of handling instruments & with the descriptive terms used for the measurements prescribed by the department.

**B. Osteometry :**

**15 Marks**

Craniometry : Glabella – Inion length, Nasion – Inion length, Glabella – Lambda length, Length of Foramen Magnum, Minimum Frontal Breadth, Maximum Frontal Breadth, Biauricular Breadth, Greatest Occipital Breadth, Bi-Mastoid Breadth, Minimum Breadth of the skull, Breadth of Foramen, Magnum, Basion Bregma Height, Total height of skull, Auricula-Bregmatic height, Horizontal circumference of skull.

Mandibulometry : Bicondylar Breadth, Bigonial Breadth, Length of lower jaw, Chin height or symphyseal height, Condylar height or height of ramus, Mandibular angle.

Candidates shall be familiar with different human bones and shall trace the bones and label.

Osteometry: Candidates shall be familiar with different human bones and shall label, measure and trace the bones prescribed.

Humerus: Maximum Length, Total length of Humerus, Maximum diameter in middle, Minimum diameter in middle, Least Girth of shaft, Girth in the middle of shaft, Maximum Transverse Diameter of Head, Maximum sagittal Diameter of Head.

Radius: Maximum Length, Physiological length or functional length, Least Girth of shaft, Transverse Diameter of shaft, Sagittal Diameter of shaft.

Ulna: Maximum Length, Physiological length, Breadth of Olecranon, Height of Olecranon, Transverse Diameter.

FEMUR : Maximum length or Caput-condylar length, Physical length, Shaft length, Sagittal Diameter or middle of shaft, Transverse Diameter or middle of shaft.

Tibia: Total length of Tibia, Physiological length, Maximum Diameter in middle of bone, Transverse Diameter in middle of bone.

Fibula: Maximum length, Maximum Diameter in middle, Minimum Diameter of middle.

**C. Dermatoglyphics:**

**15 Marks**

Candidates shall be familiar with techniques of printing the palm and sole of the subject and analyzing data.

- i) Digital Dermatoglyphics: Frequencies of different digital patterns, Indices Bimanuar.
- ii) Palmar Dermatoglyphics: Main line Formulae Mainline index Hypothenar, Thenar I, II, III, IV interdigital spaces.
- ii) Planter Dermatoglyphics – Planter triradial Planter Main lines.

- D. Serology:** **10 Marks**  
Candidates shall be familiar with techniques of classifying ABO blood group of subjects.
- E. Practical Record:**  
Candidates shall regularly maintain practical records under the supervision of the teacher in charge of the practical classes.
- F. Viva-Voce**  
**Books Recommended :**  
Singh I.P. & Bhasin M.K.: Anthropometry-Royal Anthropological Society Notes and Queries in Anthropology.  
Young, P.V.: Scientific Social Survey & Research  
Das R.R: Statistics  
Goode, Wand Hatt, P.: Methods in Social Research  
Elihanche, D.H: Elementary Statistics

**Note:** In Part-II, there shall be four compulsory papers and two optional papers (Paper-IX & X) to be chosen from either Group-1 or Group-2.

## **M.A. PART-II**

### **PAPER – VII: INDIAN SOCIETY AND CIVILISATION**

**Full Marks - 75**

**Unit – I**

INDIAN SOCIETY

**15 Marks**

Introduction to Indian Civilisation, India's population and its distribution. Linguistic and cultural division, unity in diversity.

**Unit – II**

VILLAGE COMMUNITIES - I

**15 Marks**

Their types. Functions of cities, Tribal rural urban contrast and continuum, caste class and power in India, Elite and social stratification.

**Unit – III**

VILLAGE COMMUNITIES - II

**15 Marks**

The impact of constitutional safeguards on the socio political behaviour of the Indian tribal and scheduled caste populations.

**Unit – IV**

VILLAGE COMMUNITIES - III

**15 Marks**

Social change in Modern India: Sanskritization, Westernization, Urbanisation, Economic development and Industrialisation.

**Unit – V**

Community Development Programmes

**15 Marks**

**Books Recommended :**

1. Karve, I: Hindu Society: An interpretation
2. Philip Mason: Pattern of Dominance
3. Philips Mason: (Ed) India and Ceylon: Unity & Diversity
4. Marriott, Mc. Kim:(Ed) Village India
5. Cohn, B.S.: India's Social Anthropology of Civilisation
6. Sinivas, M.N.: Caste in Modern India and other essays
7. Srinivas, M.N.: Social change in Modern India
8. Srinivas, M.N. : India's Villages.
9. Badi & Badi: Indian Society

**PAPER – VIII: DEMOGRAPHY, HUMAN ECOLOGY & APPLIED ANTHROPOLOGY**

**Full Marks - 75**

**Unit – I**

Demography **15 Marks**

Demography as a Science:

The scope and methods of population study, Major demographic processes of fertility, Unidifferential fertility, mortality causes and differentials in mortality. Migration-Emigration and immigration; internal migration.

**Unit – II**

Demography – II **15 Marks**

Status of demography in India, Population Growth distribution – Composition, density various population characteristics, sex, marital, occupational and rural urban compositions.

**Unit – III**

Human Ecology : **15 Marks**

Concept and scope of human ecology: ecology and adaptive behaviour of primates and man. Social life of early man. Ecological factors in human population as a factor in biosocial evolution.

**Unit - IV**

Applied Anthropology **15 Marks**

Comparative study of the applied and action anthropology. Total problem, land Alienation, Indebtedness, forest laws, shifting cultivation, tribal movement, socio economic, religious and political, Tribal policies.

**Unit - V**

Applied Physical Anthropology **15 Marks**

Meaning of Forensic Anthropology, Medical Anthropology and Ergonomics.

Applied Anthropological knowledge to problems of Public health, diseases. Fertility and mortality in India. Genetic counseling and gene therapy.

**Books Recommended :**

1. B. Ghosh: Contemporary Social Problem of India, Himalaya Publishing House
2. Pathak & Ram: Technique of Demographic Analysis, Himalaya Publishing House

**(OPTIONAL PAPER)**

**GROUP – A**

**PAPER – IX: ADVANCED SOCIAL ANTHROPOLOGY**

**Full Marks - 75**

**Unit – I**

Evolutionism – Spencer, Morgan, Tylor **15 Marks**

Neo – evolutionism – Leslie white, Julian steward, V.Gorden Childe.

**Unit – II**

Diffusionism – Elliot smith, Graebner. **15 Marks**

Social Darwinism and Marxism.

**Unit – III**

Functionalism : Malinowaki **15 Marks**

Structuralism : Levistrauss

Structure – Functionalism – Redcliffe Brown

**Unit – IV**

Rethinking in social Anthropology **15 Marks**

Raymond Firth, E.R. Leach, S.F. Nadel, Max, Gluckman, C. Levi Strauss.

**Unit – V**

Contributions to Indian Studies – **15 Marks**

Redfield, L.P. Vidyarthi, M.N. Srinivas, Mckim Marriot.

S.C. Roy, G.S. Ghurye



**(OPTIONAL PAPER)**  
**GROUP – A**  
**PAPER – X: ADVANCED SOCIAL ANTHROPOLOGY**

**Full Marks – 75**

<b>Unit – I</b>		<b>15 Marks</b>
	Psychological and linguistic Anthropology	
<b>Unit – II</b>		<b>15 Marks</b>
	Personality and Human nature: Basic personality, modal personality.	
<b>Unit – III</b>		<b>15 Marks</b>
	National character studies: Patterns of culture, Configurations of culture.	
<b>Unit – IV</b>		<b>15 Marks</b>
	Scope of Linguistic anthropology: Language and culture, structural analysis in Linguistic and anthropology, Sociolinguistics.	
<b>Unit – V</b>		<b>15 Marks</b>
	Philosophical anthropology – Concept of value, cultural, relativism, value and human rights.	

**Books Recommended:**

1. Introduction to culture studies – Rai & Panna – Himalay Pub. House.

**(OPTIONAL PAPER)**  
**GROUP – B**  
**PAPER – IX: ADVANCED PHYSICAL ANTHROPOLOGY**

**Full Marks – 75**

<b>Unit – I</b>		<b>15 Marks</b>
	Biological basis of human inheritance. Cell chromosomes, RNA and DNA, Genetic Action.	
<b>Unit – II</b>		<b>15 Marks</b>
	Principle of genetics. Mendel's law, autosomal inheritance, Sex limited inheritance. Inheritance of abnormal traits, brachydactyly, syndactyly, hemophilia and thalassemia.	
<b>Unit – III</b>		<b>15 Marks</b>
	Chromosomal aberration, linkage and crossing over. Normal and abnormal sex determination in man.	
<b>Unit – IV</b>		<b>15 Marks</b>
	Lethal and sublethal alleles Forces of evolution and its effects on genetical background, mutation, selection and admixture.	
<b>Unit – V</b>		<b>15 Marks</b>
	Medico – legal application of genetics, Genetic counseling.	

**(OPTIONAL PAPER)**  
**GROUP – B**  
**PAPER – X: ADVANCED PHYSICAL ANTHROPOLOGY**

**Full Marks – 75**

<b>Unit – I</b>		<b>15 Marks</b>
	Methods of studying human heredity, pedigree study, twin study, biometry. Inheritance of normal, morphological characters and their variation in different geographical regions.	
<b>Unit – II</b>		<b>15 Marks</b>
	Multiple alleles and blood groups, ABO system, Rh system, MN systems. The P system Compatible and incompatible mating.	

**Unit – III**

**15 Marks**

Concept of gene pool and gene frequencies, Hardy Weinberg equilibrium.

**Unit – IV**

**15 Marks**

Biological aspects of human reproduction, development of an individual: Prenatal, postnatal, adolescent and ageing.

**Unit – V**

**15 Marks**

The Genetics of Behavior. Genes contribute to most Behavioral traits. Eating disorders, sleep, intelligence, drug addiction, mood disorders and schizophrenia.

**PAPER – XI : PRACTICAL**

**Full Marks - 100**

**Duration - 6 hrs**

- A.** Museology, Technology and Museum Management:  
Candidates shall be familiar with the procedure of preservation of organic and inorganic materials in the anthropological museum. They shall also be required with the museum management such as the collection, classification, arrangement and display of museum specimens.
- B.** Socio economic and Demographic profile of a community.  
Candidates shall submit brief report on important socioeconomic and demographic aspects of their locality under the guidance of a teacher.
- C.** Practical Record
- D.** Viva-Voce (A+B)

**PAPER – XII : PRACTICAL**

**Full Marks - 100**

**Duration - 6 hrs**

**Group - A: Advanced Social Anthropology**

- i) Dissertation
- ii) Viva Voce

Dissertation shall be submitted by the students after field work under the supervision of a teacher preferably for a period of 30 days in tribal, rural or urban area as selected by the Head of the Department from time to time.

**Group - B: Advanced Physical Anthropology Practical**

**a) Practical**

- i) Serology – candidates have to learn the Techniques of A.B.O. blood group, Rh blood group and M.N. Blood group.
- ii) P.T.C. Taste threshold study, colour blindness study
- iii) Practical record
- iv) Viva-Voce

**b) Field work Dissertation**

- i) Dissertation
- ii) Viva-voce

Dissertation shall be submitted by the students after field work under the supervision of a teacher preferably for a period of twenty days in a rural, tribal or urban area as selected by the Head of the Department.

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