**Annexure-I**

**Scheme of Examination of B.Sc. Medical**

 **Anthropology**

**Semester I**

Paper –I Introduction to Anthropology Max Marks 40+10 Time-3hrs

Paper – II PrimatologyMax Marks 40+10 Time-3hrs

**Semester II**

Paper –I Fundamentals of

 Palaeoanthropology Max Marks 40+10 Time-3hrs

Paper – II Palaeoanthropology Max Marks 40+10 Time-3hrs

Paper – III Practical Max. Marks – 100 Time 3-hrs

**Semester III**

Paper –I Ethnic Variation Max Marks 40+10 Time-3hrs

Paper – II Human Growth Max Marks 40+10 Time-3hrs

**Semester IV**

Paper – I Social Anthropology Max Marks 40+10 Time-3hrs

Paper – II Prehistoric Archaeology Max Marks 40+10 Time-3hrs

Paper- III Practical Max Marks 100 Time – 3hrs

**Semester V**

Paper – I Human Genetic Max Marks 40+10 Time-3hrs

Paper- II Human Genetic Max Marks 40+10 Time-3hrs

**Semester VI**

Paper- I Human Ecology and adaptation Max Marks 40+10 Time-3hrs

Paper- II Application of Anthropology Max Marks 40+10 Time-3hrs

Paper- III Practical Max Marks 100

**ANTHROPOLOGY**

**B.Sc I Semester I**

**PAPER – 1 INTRODUCTION TO ANTHROPOLOGY**

**Max marks = 40+10**

**Time = 3hrs**

**Note: Attempt five questions in all. Selecting two questions from each units. Question No.-1 is compulsory (short answer type). Nine questions are to be set covering the entire syllabus. All questions carry equal marks.**

**UNIT -1**

1. Meaning, scope and development of Anthropology.
2. Relationships with other disciplines: Social Sciences, Behavioral Science, Life Sciences, Medical Sciences, Earth Sciences and Humanities.
3. Main branches of Anthropology , Their scope and relevance:
4. Social Cultural Anthropology
5. Biological Anthropology.
6. Archaeological Anthropology
7. Linguistic Anthropology

**UNIT -2**

1. Organic Evolution :

Evidences of organic evolution , Evidence from Morphology, Evidences from Taxonomy, Evidence from Comparative Anatomy, Evidence from Comparative Physiology, Evidence from Zoogeography, Evidence from Embryology, Evidence from Palaeontology

1. Theories of Organic Evolution :

Lamarck’s Theory, Criticism of Lamarckism, Darwin’s Theory , Impact of Darwin’s Revolution, Objection to Darwin’s Theory, Synthetic Theory of Evolution

1. Principles and Processes of Evolution :

Parallelism and Convergence, Adaptive Radiation, Irreversibility of Evolution

**PAPER II PRIMATOLOGY**

Max marks = 40+10

Time = 3hrs

**Note: Attempt five questions in all**. **Selecting two questions from each units. Question No.-1 is compulsory (short answer type). Nine questions are to be set spread over entire syllabus. All questions carry equal marks.**

**UNIT-1**

1. Place of man in animal Kingdom

General characteristics of Chordata and Non- Chordata, Vertebrates, Mammalian Characteristics, The Primates, Characteristics of Primates, Classification of Primates

1. Primate adaptation (Arboreal and Terrestrial), Living major Primates (characteristics and distribution)

**UNIT -2**

1. Ape and Man

Locomotion, Primate Locomotor Patterns, Vertical Clining and Leaping, Quardupedalism, Brachiation, Bipedalism, Manipulation, Mental Process: Brain Size and Complexity

1. Evolution of Orthograde Spine, Postural adaptation of the shoulder and Thorax, Adaptation of th abdomen and it’s viscera to the Orthograde posture, Postural modification of the Pelvis.
2. Skeleton Comparison :Ape and Man

Cranium and Face, Cranial Skeleton, Facial Skeleton, Vetebral Column, Limbs.

**SUGGESTED READINGS:-**

1. Brace C.L & Montagu, A: Man Evolution- An introduction to Physical Anthropology : Macmillan: New York
2. Burttner\_Janusch, John (1969): Origins of Man. Wiley Eastern Private Limited: New Delhi.
3. Ember,C.(2002) : Introduction to anthropology and Archaeology, Prentice Hall
4. Comas, Juan(1960): Manual of Physical Anthropology (Spring- Fields: C.C. Thomas USA
5. Hootan, E.A. (1947) Uo from the ape, Macmillan , New York.

**PAPER I FUNDAMENTALS OF PALAEOANTHROPOLOGY**

**B.Sc. Semester II**

**Max marks = 40+10**

**Time = 3hrs**

**Note: Attempt five questions in all. Selecting two questions from each units. Question No.-1 is compulsory (short answer type). Nine questions are to be set speared over entire syllabus. All questions carry equal marks.**

**UNIT -1**

1. Palaeoanthropology, Definition , Scope, aim objectives
2. Relationship of Palaeoanthropology with other disciplines.
3. Geological Time Scale.

**UNIT -2**

1. Fossils and Fossilization

How Fossils are formed, The process of Fossilization, Conditions for Fossilization

1. Methods of dating

Relative Dating Methods, Flourine Analysis,Fossil Pollen (Palynology), Seriation , Dendrochronology,

Absolute Dating, Radio –Carbon Dating, Potassium- Argon Dating, Varve Analysis, Obsidian Hydration

**PAPER II PALAEOANTHROPOLOGY**

**Max marks = 40+10**

**Time = 3hrs**

**Note : Attempt five questions in all. Selecting two questions from each units. Question No.-1 is compulsory (short answer type). Nine questions are to be set speared over entire syllabus. All questions carry equal marks.**

**UNIT-1**

1. Phylogentic status, Characteristics and geographical distribution of the following.
2. Plio - Pleistocene hominids in south and East Africa\_ Australopithecines.
3. Homo Erectus: Africa (Paranthropus), Europe (Homo erectus heidelber- gensis), Asia (Homo erectus javanicus, Homo erectus pekinensis).
4. Neanderthal Man – La- Chapelle-auxsaints (Classical type), Mt. Carmel (Progressive type).
5. Rhodesian man.

**UNIT-2**

1. Homo sapiens During Upper Pleistocene Cromagnon, Grimaldi and Chancelede.
2. Homonization : A process of Evolutionary Transformation, The Influence of arboreal life, The return to the terrestrial life, The Earliest Evidence, From Herbivore to Omnivore, Brain and Nervous System

**SUGGESTED READINGS:-**

1. Brace C.L & Montagu, A: Man Evolution- An introduction to Physical Anthropology : Macmillan: New York
2. Burttner\_Janusch, John (1969): Origins of Man. Wiley Eastern Private Limited: New Delhi.
3. Boyd R and Silk JB(2009), How Humans Evolved. London: WW Norton.

Tattersall I.(2009). The fossil Trail : How we know what we think we know about Human Evolution . New York : Oxforf University Press.

1. Lansen CS. Matter RM and Gebo DL. (1998). Human Origin: The Fossil Record.
2. Conroy GC.(2005). Reconsructing Human Origins. WW Norton and Company.

**PAPER III PRACTICAL**

**Max Marks: 100**

1. Introduction to Human osteology, Detailed morphology of human skull (Norman Verticalis, Norma Lateralis, Norma frontalis, Norma occipitalis, Norma basalis) and long bones pelvic and Pectoral Gridle.
2. Application of Osteology in Anthropological studies and forensic science.
3. Comparative Anatomy of man with primates.