

# **Communicative English**

## **Theory and Practical**

1. Listening: Listening to the texts CDS.
2. Reading: Techniques of reading, identifying the contents and central idea.
3. Writing: Rewriting a story from a point of view of different characters with given statements, Technical report writing, resume writing, An application writing for employment etc.
4. Basic Grammar: Vocabulary- Descriptive approaches, use of antonym. Grammar in spoken & written. Making statements.
5. Practice: Exercise on the use of different grammatical constructions in context. Identification of the use of above given grammatical devices from newspaper, stories etc.
6. Mouth exercise with vowel and consonant sound
7. Monologue, Dialogue, Conversation
8. GD and Debate
9. Interview facing skill
10. Presentation

**Full Mark: 50**  
**CREDIT POINT: 4**  
**(THEORY)**

1. Basic laboratory principles, Safety measure rules and regulation of BSL and biosafety cabinets.
2. Code of conduct of medical laboratory personnel.
3. Organization of clinical laboratory and role of medical laboratory technician
4. Medical laboratory professional - professionalism in laboratory workers, Code of conduct, communication between physician and lab technician.
5. Common Lab accidents and ways for its prevention, First aid in the clinical laboratory, Common Laboratory hazards, Waste disposal in the labs
6. Introduction to basic pathology of body fluids
7. **Microscope:** Light microscope, Compound microscope, Phase Contrast microscope, Fluorescent and Polarized microscope.
8. **Instrumentation:** Working Principle, components and application.  
Spectrophotometer, Colorimeter, Centrifuges, Autoclave, Laminar flow, Incubator, Blood cell counter, ELISA, Semi and full autoanalyzer, HPLC, Electrophoresis, RT-PCR, Flow Cytometry
9. Introduction to Quality control, Total quality management framework.
10. Quality laboratory processes, Quality assurance, Quality assessment, Quality control, External quality control
11. Quality planning and Quality improvement, Quality control programme, intrinsic and extrinsic and random errors.
12. Costs of conformance and non-conformance, appraisal costs, prevention costs
13. Internal quality control, basic steps, sources of error and their correction methods, CAPA - corrective action & preventive action
14. Quality control charts, Levy- Jennings and CUSUM charts
15. Current trends in laboratory accreditation, ISO certificate, West guard Rules
16. Demonstration of various methods of quality control.

**Environment & Health**

**PAPER III, Unit: 3**

**Full Mark: 50**

**(THEORY)**

**CREDIT POINT: 4**

1. Basic idea about macro and micro environment, components of environment. Environmental air, water, noise, radiation and food pollutions and pollutants. Pollutant and health hazards. Managements of environmental pollution- arsenic, fluoride, lead and mercury pollution of environment.
2. Occupational health hazards in special reference to heat, cold, light, noise, vibration and dust. Occupational disease like silicosis, asbestosis, farmer's lung.
3. Human excreta disposal system. Health disorders due to mismanaged extra disposal standards of ventilations and types. Good lighting and its importance on health.
4. Communicable disease and role of environment for such transmission. Management of such communicable disease. Special reference to malaria, diarrhoea, cholera, HIV, Hepatitis, Typhoid.
5. Non-communicable diseases and role of environment for such diseases. Management of non-communicable diseases. Diabetes, CVD, Gout, Asthma.

**Community Health Care**

**PAPER IV, Unit: 4**

**Full Mark:50**

**(THEORY)**

**CREDIT POINT: 4**

1. Concept of dimension of health. Concept of community & community health. Concept of disease and control of disease.
2. Determinants of health, responsibility of health. Sources of health information system.
3. Community health & nutritional indicators with their measurement. Health care of pregnant and lactating mother and infant in India.
4. Primary idea about present community health care ecosystem.
5. Primary health care and Programmes in India – mother –child health care system – village level, sub centre level, primary health centre, community health centres.
6. Non- Governmental agencies in community health care system.
7. System of health care awareness in community in rural and urban areas. Community nutrition programmes for community health care.
8. Health Education and Communication system.

9. National strategies for community health upgradation.

## **Human Anatomy**

**PAPER:V, Unit: 5**

**Full Mark:50**

**(THEORY)**

**CREDIT POINT: 4**

### **1. System of the human body**

1. Parts of blood vascular system,
2. Anatomy of upper and lower respiratory tract,
3. Anatomy of Gastro intestinal tract, urogenital system,
4. Endocrine system including reproductive organs,
5. Integumentary system, CNS & PNS of human body and surface anatomy.

### **2. Musculo- skeletal Anatomy**

A) Basic idea about the Fascia and muscles of head, neck face, trunk, upper limb and lower limb, muscles of eye

B) General structure of all bones of skeleton and their attachment, Classification of joints, joint of head, neck, trunk, upper limb, shoulder girdle and pelvic girdle.

## **Human Anatomy**

**(Practical)**

**Paper-VI,Unit:6**

**Full mark: 50**

**CREDIT POINT: 4**

1. Identification of surface land marks of a human body.
2. Study on muscles of trunk, lower and upper extremities and face on a dissected human body.
3. Study on bone on human body with special reference to the origin and Insertion of muscles and ligaments.
4. Study on gross anatomy of respiratory, digestive, endocrine, urinary and

genital system on a dissected human body.

5. Study on the anatomy of CNS and PNS on a dissected human body.

### **Recommended Books:**

1. Guide of patters and usages in English, A S Hornby
2. English Vocabulary in use, Michael Mc Carth and Felicity O 'Dell
3. Better pronunciation, O Conner.
4. Hand Book of Practical Communication skills, Chrissie Wright.
5. History of Science, Samarendra Nath Sen.
6. Science and Society in Ancient India, D P Chattopadhyay.
7. Environment and Health, Goutam Pal.
8. Preventive and Social Medicine, Park and Park.
9. Fundamentals of Human Anatomy, Dr. N Chakraborty and Dr. D Chakraborty.
10. Anatomy, Gray
11. Clinical Anatomy for Medical students, Snell
12. Human Anatomy, Dutta
13. Essentials of Anatomy, Singh.