ANNEXURE-II

SCHEME AND SYLLABUS FOR THE POST OF CIVIL ASSISTANT SURGEONS IN A.P. INSURANCE MEDICAL SERVICE

SCHEME:

a) WRITTEN EXAMINATION (Objective type)				
1	GENERAL STUDIES	150 Marks	150 Questions	150 Minutes
2	SUBJECT: (Medical Science & General Medicine)	300 Marks	150 Questions	150 Minutes
b) INTERVIEW (Oral Test)		50 Marks		

SYLLABUS

1 - GENERAL STUDIES

- 1. General Science Contemporary developments in Science and Technology and their implications including matters of every day observation and experience, as may be expected of a well-educated person who has not made a special study of any scientific discipline.
- 2. Current events of national and international importance.
- 3. History of India emphasis will be on broad general understanding of the subject in its social, economic, cultural and political aspects with a focus on AP Indian National Movement.
- 4. World Geography and Geography of India with a focus on AP.
- 5. Indian polity and Economy including the country's political system- rural development Planning and economic reforms in India.
- 6. Mental ability reasoning and inferences.

2 - Subject: (MEDICAL SCIENCE & GENERAL MEDICINE)

HUMAN ANATOMY: Gross and microscopic anatomy and movements of shoulder hip and knee joints – Gross and microscopic anatomy and block supply of lungs, heart, kidneys, liver, testis and uterus – Gross anatomy of pelvis, perineus and inguinal region, Cross sectional anatomy of the body at mid-thoracic, upper abdominal, mid-abdominal and pelvic regions. Major steps in the development of lung, heart, kidney, urinary bladder, uterus, ovary, testis and their common congenital abnormalistics – Placenta and placental barrier – Neural patnways for cutaneous semasations and vision cranial nerves iii, iv,v, vi, vii, x; distribution and clinical significance - Anatomy of the automatic centrol of gastrointestinal respiratory and reproductive systems.

HUMAN PHYSIOLOGY: Nerve and muscle excitation, conduction and transmission of impulse; mechanism ;of contraction; neuromuscular transmission - Synaptic transmission, reflexes, control of equilibrium posture and muscle tone. Descending pathways; functions of cerebellum, basal ganglia, reticular formation, hypothalamus limbic system and cerebral cortex - Physiology of sleep and consciousness: E.E.G. - Higher functions of the brain - Vision and hearing - Mechanism of action of hormones; formation, secretion, transport, metabilism, functions and regulation of secretion of pancreas and pituitary glands - Menstrual cycle; lactation, pregnancy - Development regulation and fate of blood cells - Cardiac excitation; spread ;of cardiac impulse, E.C.G. cardiac output, blood pressure, Regulation of Cardiovascular functions - Mechanics of respiration and regulation of respiration - Digestion and absorption of food, regulation of secretion and motility of gastrointestinal tract - Glomerular and tubular functions of kidney - Blood groups, Rh grouping, blood transfusion, and Blood volume.

BIOCHEMISTRY: PH and PK Hendrson – Hasselbalch equation – Properties and regulation of enzyme activity; role of high energy phosphates in bioenergetics – Sources, daily requirements, action and texicity of vitamins – Metabolism of Lipids, carbohydrates, proteins; disorders of their metabilism – Chemical nature, structure, synthesis and functions of nucleic acids and proteins – distribution and regulation of body water and minerals including trace elements – Acid base balance – Clinical importance of enzymes. PATHOLOGY; Reaction of cell and tissue of injury; inflammation and repair, disturbances of growth and cancer; genetic diseases – Pathogenesis and histo-pathology of; rheumatic and ischaemic heart disease – bronchogenic carcionoma, carcinoma breast, oral cancer, cancer colon – Etiology,

pathegenesis and histopathology of: Peptic ulcer - Cirrhesis liver - Glemerulonephritis -Lobar pneumonia -Acute ostoomyclities - Hepatitis - acute pencreatitis - FINE needle aspiration cytology(FNAC) - MICROBIOLOGY: Growth of micro-organisms; sterilization and disinfection bacterial genetics; virus-cell interactions – Immunelogical principles; acquired immunity; immunity in infections caused by viruses – Diseases caused by and laboratory diagnosis of staphylococcus Enterococcus; Salmonella; Shigella; Edcherichia; Pseudomonas, Vibrio; Adenoviruses; Herpes viruses (including Rubella); Fungi Protozoa; Helminths - AIDS diagnostic procedure - PHARMACOLOGY: Drug recepter interaction, mechanism of drug action - Mechanism of action, dosage, metabolism and side effects of the - Pilocarpine, Terbutaline, Metophrolol, Diazepan, Acetylsalicylic Acid Ibubrofen, Furosemide, Metronidazole, Chloroquin, - Mechanism of action, dosage and texicity of the antibiotics: Ampicillin, Cephalexin, Doxycycline, Chloramphenical, Rifampin, Cefotaxime - Indications, dosage, side-effects and contraindications of the following anti-cancer drugs:- Methotrexate, vincristin, Tamoxifen - Classification, route of administration, mechanism of action and side effects of the :- General amaesthetics, Hypnotics, Analgesics - Forensic Medicine and Toxicology: Forensic examination of injuries and wounds – Physical and chemical examination of blood and seminal stains - Details of forensic examination for establishing identification of persons, pregnancy, abortion rape and virginity.

GENERAL MEDICINES:- 1. Disorders of CNS: Meningitis Eencephalitis, Cerebrovascular diseases epilepsy, Neoplasms - 2. Disorders of CVS - Rhematic, Ischaemic and congential heart diseases, Hypertension _ 3. Respiratory diseases – Acute and Chronic infections, bronchial asthma, Neoplasms, Industrial diseases – 4. Excretory systems – Acute glomerulo Nephrities, Nephrotic syndrome, chronic phyelonephritis and renal failure – 5. Gastro-Intestinal disorders – Acid Peptic diseases, Malabsorption syndromes, viral hepatitis, Cirrhosis of liver pancreatitis - 6. Hematological diseases – Anemias, Coagulation failures, Leukemias, Lymphomas, Hodgkins disease – 7. Metabolic disorders – Diabetes, Thyrod disorders, parathyroid diseases – 8. Miscellaneous – Skin disorders – Allergies, Drug reactions, parasitic infestations, Psychiatric disorders: Schizophrenia and depression – 9. Community Medicine – Malaria, Filaria and various national Health programmes – Leprosy, T.B., S.T.D. including AIDS – Parasitic infestations – Hook worm, round warm, Guinea worm, Amoebiasis – 10. Nutrional disorders – Normal nutrition, and deficiency diseases in India.

GENERAL SURGERY: 1. Cervical lymphnodes, parotid tumour and oral cancers – 2. Peripheral arterial diseases – varicose veins, Failariasis – 3. Dysfunctions of Thyroid, Parathyroid adrenal tumors and the surgical aspects – 4. Abscess breast and cancer breast – 5. Acute and Chronic Appendicitis blleeing peptic ulcer, T.B. of bowel intentinal obstructions – 6. Renal mass, retention of Urine Benign Prostatic Hypertrophi – 7. Spleno-Megaly, Chronic Cholecystitis portal Hypertension liver abscess peritonitis, Cancer head of Panchreas – 8. Direct and indirect Ingninal Hermias and their complications – 9. Fracture of Femur, Spine Poly trauma and their management.

OBSTETRIC AND GYNECOLOGY + FAMILY PLANNING: 1. Diagnosis of Pregnancy, Antenatal Screening for high-risk pregnancy, Feto-placental development – 2. Labour management, complications of 3rd stage, post partum hemorrhage, Inversion, Resuscitation of the new born and premature baby – 3. Diagnosis and management of Pregnancy – induced – hypertension Eclampsia, anemias – 4. Principles of contraceptive methods – Intrauterine Device oral pills, Tubectomy and Vasectromy. Medical termination of pregnancy including its legal aspects and complications – 5. Etiology, Clinical features, diagnosis and mass screening of cancer cervix leucorrhea, Infertility, Abnormal Uterine bleeding, Amenorrhoea – 6. Miscllaneous: Objectives, components of National Health and Family Welfare Programmes – Maternal and Child health – Family welfare – Nutrition – Immunisations – Population trends and its effect on health and Development.

Sd/-SECRETARY