ANNEXURE – II NOTIFICATION NO. 20/2022 SCHEME & SYLLABUS OF EXAMINATION FOR RECRUITMENT TO THE POST OF CIVIL ASSISTANT SURGEON IN A.P. INSURANCE MEDICAL SERVICES

SCHEME OF THE EXAMINATION

WRITTEN EXAMINATION (Objective Type)				
PAPER	SUBJECT	No. Of Questions	Duration Minutes	Maximum Marks
PAPER-I	GENERAL STUDIES & MENTALABILITY (Degree Standard)	150	150	150
PAPER-II	SUBJECT: (Medical Science , General Medicine and General surgery)	150	150	300
Total				450
NEGATIVE MARKS: As per G.O.Ms. No.235, Finance (HR-I, PIg & Policy) Dept., Dt. 06/12/2016,for each wrong answer will be penalized with 1/3 rd of the marks prescribed for the question.				

SYLLABUS OF EXAMINATION

PAPER-I: GENERAL STUDIES AND MENTAL ABILITY

- 1. Events of national and international importance.
- 2. Current affairs- international, national and regional.
- 3. General Science and it applications to the day to day life Contemporary developments in Science & Technology and information Technology.
- 4. Social- economic and political history of modern India with emphasis on Andhra Pradesh.
- 5. Indian polity and governance: constitutional issues, public policy, reforms and e-governance initiatives with specific reference to Andhra Pradesh.
- 6. Economic development in India since independence with emphasis on Andhra Pradesh.
- 7. Physical geography of Indian sub-continent and Andhra Pradesh.
- 8. Disaster management: vulnerability profile, prevention and mitigation strategies, Application of Remote Sensing and GIS in the assessment of Disaster.
- 9. Sustainable Development and Environmental Protection
- 10. Logical reasoning, analytical ability and data interpretation.
- 11. Data Analysis:
 - a) Tabulation of data
 - b) Visual representation of data
 - c) Basic data analysis (Summary Statistics such as mean, median, mode, varianceand coefficient of variation) and Interpretation
- 12. Bifurcation of Andhra Pradesh and its Administrative, Economic, Social, Cultural, Political, and Legal implications/problems.

PAPER-II

Subject: (MEDICAL SCIENCE, GENERAL MEDICINE AND GENERAL SURGERY)

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, midabdominal 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 control of gastrointestinal respiratoryand 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 bioeneraetics daily reqauirements, action and texicity of vitamins – Metabolism of Lipids, Sources, 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 histopathology 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 pancreatitis - 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 Pilocarpine, side effects of the _ 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 of the following anti-cancer drugs:- Methotrexate, vincristin, contraindications 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.