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**Uttar Pradesh Public
Service Commission
(UPPCS Mains)**

Exam Syllabus

Optional Subjects
Medical Science

:: PAPER – I ::

1. Human Anatomy:

Gross anatomy, applied anatomy, blood supply and lymphatic drainage of tongue, thyroid, mammary gland, stomach, liver, prostate, gonads, uterus, Heart and lungs. Applied anatomy including blood and nerve supply of upper and lower limbs and joints of shoulder, hip and knee.

Applied anatomy of diaphragm, perineum and inguinal region.

Applied anatomy of kidney, urinary bladder, uterine tubes and vas deferens.

Embryology: Placenta and placental barrier. Development of heart, gut, kidney, uterus, ovary, testis and their common congenital abnormalities.

Central and peripheral autonomic nervous system: Gross and clinical anatomy of ventricles of brain, circulation of cerebrospinal fluid; Neural pathways and lesions of cutaneous sensations, hearing and vision; Cranial nerves, distribution and clinical significance; Components of autonomic nervous system, Internal capsule and cerebral cortex.

2- HUMAN PHYSIOLOGY

Blood

- IMMUNITY, THROMBOCYTOPENIA CVS_CARDIC CYCLE,
- RESPIRATION-OBSTRUCTIVE DISEASES,ACID BASE BALANCE KIDNEY- MICTURATION REFLEX,
- GIT- PEPTIC ULCER, LIVER FAILURE, JAUNDICE (OBSTRUCTIVE, HEPATIC, HEMOLYTIC)ACUTE PANCREITIS)
- ENDOCRINE – GOITER, OSTEOMALACIA, MASTER GLAND CNS- CEREBRALSTROKE, PARKINSON'S DISEASE, HEMIPLEGIAPARAPLEGIA
- SPECIAL SENSES—NIGHT BLINDNESS, CATRACT, MYOPIA, HYPERMETROPIA, AMBLAYOPIA
- REPRODUCTION – PREGNANCY TESTS, LACTATION, AMENORRHOEA, STERILITY
- IN MALE & FEMALE, OVULATION, SPERM COUNT

3. Biochemistry:

1. Organ function tests-liver, Kidney, thyroid.
2. Protein synthesis.
3. Vitamins and minerals.
4. Polymerase chain reaction (PCR)
5. Enzymes & Biomarkers
6. Diabetes Mellitus & Blood Sugar Level.
7. DNAREplication.
8. RNATranscription
9. DNAREpair Mechanism.
10. Lipid Profile
11. Nutrition
12. Hemoglobin.
13. Free Radical &Antioxidants.

4. Pathology:

Inflammation and repair, disturbances of growth and cancer, Pathogenesis and histopathology of rheumatic and ischemic heart disease, Diabetes mellitus. Differentiation between benign and malignant tumours. Pathogenesis and histopathology of bronchogenic carcinoma, carcinoma breast, oral cancer, cancer cervix, leukemia, Etiology, pathogenesis and histopathology of – cirrhosis liver, glomerulonephritis, tuberculosis. Anemia, Thalassemia, Fatty liver, Cholelithiasis, Inflammatory, Bowel Disease, Autoimmunity, Stem cell.

5. Microbiology:

Humoral and cell mediated immunity, Koch's postulates Diseases caused by and laboratory diagnosis of –

Meningococcus, Salmonella Shigella, Herpes, Dengue, Polio, Bacteriophages, Influenza virus, Japanese encephalitis virus, Tuberculosis, HIV/AIDS, Malaria, E. histolytica, Giardia Candida, Cryptococcus, Aspergillus.

6. Pharmacology:

- Drug Nomenclature
- Adverse Drug Reactions
- Drug Act & Drug Schedules
- Drug Clinical trial
- Drug Life,
- Drug Advertisement
- Drug Addiction
- Pharmaco Vegilance Programme
- Prescription Writing
- Side effects of the following drugs: Antipyretics and analgesics, Antibiotics, Antimalaria, Antikala-azar, Antidiabetics, Antihypertensive, Antiviral, Antiparasitic, Antifungal, Immunosuppressants, Anticancer, Anti-diarrheal, Antitubercular, Diuretics.

7. Forensic Medicine and Toxicology:

Medical Ethics and Law, Medico legal aspect of pregnancy, delivery and abortion; Sexual offences, Forensic examination of injuries and wounds; Examination of blood and seminal stains; poisoning, sedative overdose, hanging, drowning, burns, DNA and finger print study.

:: PAPER - II ::

1. General Medicine:

A) Aetiology, Clinical features, diagnosis and principals of management (including prevention) of: Tetanus, Rabies, HIV / AIDS, Dengue, Japanese Encephalitis, Typhoid, Leprosy, Tuberculosis, Malaria, Indian Kala-azar, Rheumatic Heart disease.

B) Aetiology, Clinical features, diagnosis and principals of management of: Ischemic Heart Disease, Hypertension, Diabetes Mellitus, Hypothyroidism, Hyper thyroidism, Epilepsy, Bronchial Asthma, Chronic Obstructive Lung Disease (COPD), Pleural Effusion, Viral Hepatitis and Cirrhosis of Liver, Peptic Ulcer Disease, Pneumonia, Occupational Lung disease.

C) Aetiology, Clinical features, diagnosis and principals of management of: Glomerulonephritis, Nephrotic / Nephritic Syndrome, Renal Failure, Hyponatremia, Anemia, Thalassemia, Haemophilia, Leukaemia, Lymphoma, Rheumatoid Arthritis, Osteoporosis, Urinary Tract Infections, Meningitis, Encephalitis.

D) Medical Emergencies: Heat stroke, Drowning, Carbon monoxide poisoning, Organophosphorus poisoning, Aluminium phosphide poisoning.

E) Anxiety, Psychosis, Schizophrenia, Dementia

F) Medico-legal aspect of Hanging, Alcoholism,

G) Investigative Procedures in Medicine: Ultrasonography, CT Scan, MRI, Echocardiography, Endoscopy, Bone Marrow aspiration, CSF examination, Complete Blood Count.

2. Pediatrics:

Immunization, Baby friendly hospital, Breast feeding, congenital cyanotic heart disease, respiratory distress syndrome, broncho-pneumonias, Neonatal hyperbilirubinemia, Kernicterus. IMNCI classification and management, PEM grading and management, ARI and Diarrhea of under five years children and their management.

3. Dermatology:

Psoriasis, scabies, eczema, vitiligo, Steven Johnson's syndrome and TEN, Lichen Planus, Leprosy, Bacterial viral and fungal infections of skin.

4. General Surgery:

Clinical features, causes, diagnosis and principles of management of cleft palate, harelip.

Laryngeal tumor, oral and esophageal tumors.

Peripheral arterial diseases, varicose veins, Tumours of Thyroid, Adrenal Glands, Breast Abscess, cancer, fibroadenoma and adenosis Bleeding peptic ulcer, tuberculosis of bowel, ulcerative colitis, cancer stomach.

Renal mass, Cancer Prostate, Benign Prostatic Hyperplasia (BPH).

Haemothorax, stones of Gall bladder, Kidney, Ureter and Urinary Bladder.

Management of surgical conditions of Rectum, Anus and Anal canal, Gall bladder and Bile ducts.

Portal hypertension, liver abscess, peritonitis, Peri Ampullary Carcinoma Fractures of spine, Colles' fracture and bone tumors.

Endoscopy.

Laparoscopic Surgery.

Advance Trauma Life Support System (ATLS) Surgical Ethics.

5. Obstetrics and Gynaecology including Family Planning:

Fertilization and Implantation, Development, Function and Abnormalities of placenta.

Diagnosis of pregnancy, Antenatal care.

Labour management, complications of 3rd stage, Antepartum and postpartum hemorrhage, resuscitation of the newborn, Management of abnormal lie and difficult labour, Management of small for date, Fetal growth restriction or premature newborn.

Diagnosis and management of anemia, Preeclampsia and Eclampsia of pregnancy, Management of Rh-Negative, Diabetes with pregnancy, multiple pregnancy. Birth injuries.

Management of Abortion, Ectopic pregnancy.

Intra-uterine devices, pills, tubectomy and vasectomy, Medical termination of pregnancy including legal aspects.

Development of genital organs, Congenital anomalies of uterus and their treatment.

Vaginal discharge, pelvic pain, infertility, Abnormal uterine bleeding (AUB), Fibroid and prolapsed of uterus.

Management of Post- menopausal Syndrom.

Cancer cervix, Carcinoma body of uterus and ovary.

6. Community Medicine (Preventive & Social Medicine)

1. Concepts of health and disease
2. Principles, methods, approach and measurement of Epidemiology
3. Food and nutrition security, Nutritional Diseases / disorders & National Nutritional Programmes.
4. Components of environment, pollution related diseases, and Total Sanitary Campaign, Management of Hospital and Industrial waste, Nosocomial Infections.
5. Health Information System, Basics of Medical Statistics, Demography and Information, education & communication
6. Health management and administration: Techniques, Tools, Programme implementation and Evaluation.
7. Critical appraisal of Health Care Delivery System
8. Objectives, Components, Goals and Status of Reproductive and child Health, National health Mission

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Millennium and Sustainable Developments Goals.

9. Objectives, components and critical appraisal of National Health Programmes: i) For Communicable Diseases (RNTCP, NVBDCP, AIDS), ii) Non-communicable Diseases (National Programme for Control of Non-communicable Diseases, National Mental Health programmes, Geriatric Mental Health)

10. Occupational Health

11. Disaster Management and Health Management in fairs and festivals

12. Policies, acts and legislations related to health

13. National and International Health Organizations

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