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Medical Science Syllabus for IAS Main Exam 2012

Note (i): A candidate may be required to answer some of all the questions in the language concerned.

Note (ii): In regard to the language included in the Eighth Schedule to Construction, the scripts will be the same as indicated in Section-II (B) of Appendix I relating to Main Examination.

Note (iii): Candidates should note that the questions not required to be answered in a specific language will have to be answered in the language medium indicated by them for answering papers on Essay. General Studies and Optional Subjects.

MEDICAL SCIENCE PAPER - I

1. Human Anatomy:

Applied anatomy including blood and Vitamins and minerals. nerve supply of upper and lower limbs and Restriction fragment length polymorphism joints of shoulder, hip and knee.

Gross anatomy, blood supply and lym- Polymerase chain reaction (PCR). phatic drainage of tongue, thyroid, mam- Radio - immunoassays (RIA). mary gland, stomach, liver, prostate, go- 4. Pathology: nads and uterus.

Applied anatomy of diaphragm, perineum and inguinal region.

der, uterine tubes, vas deferens,

genital abnormalities.

of ventricles of brain, circulation of cere- culosis, acute osteomyelitis. brospinal fluid; Neural pathways and le- 5. Microbiology: sions of cutaneous sensations, hearing and Humoral and cell mediated immunity vision; Cranial nerves, distribution and Diseases caused by and laboratory diag- Anxiety and Depressive Psychosis and clinical significance; Components of autonosis ofnomic nervous system.

2. Human Physiology:

Conduction and transmission of impulse, mechanism of contraction, neuromuscular transmission, reflexes, control of equilibrium, posture and muscle tone, descending pathways, functions of cerebellum, 6. Pharmacology: basal ganglia, Physiology of sleep and consciousness.

Endocrine system: Mechanism of action of hormones, formation, secretion, transport, metabolism, function and regulation of secretion of pancreas and pituitary gland.

Physiology of reproductive system: Menstrual cycle, lactation, pregnancy.

Blood: Development, regulation and fate

Anticancer of blood cells.

functions;

3. Biochemistry:

Organ function tests-liver, kidney, thyroid Protein synthesis.

(RFLP).

Inflammation and repair, disturbances of growth and cancer, Pathogenesis and histopathology of rheumatic and ischemic Clinical anatomy of kidney, urinary blad- heart disease and diabetes mellitus. Dif- Pleural effusion, tuberculosis, Malabsorp-Embryology: Placenta and placental bar- primary and metastatic malignancies, ral hepatitis and cirrhosis of liver. rier. Development of heart, gut, kidney, Pathogenesis and histopathology of bron- Glomerulonerphritis and pyelonephritis, uterus, ovary, testis and their common con- chogenic carcinoma, carcinoma breast, renal failure, nephrotic syndrome, renovasoral cancer, cancer cervix, leukemia, Etiol- cular hypertension, complications of dia-Central and peripheral autonomic ner- ogy, pathogenesis and histopathology of - betes mellitus, coagulation disorders, leuvous system: Gross and clinical anatomy cirrhosis liver, glomerulonephritis, tuber- kemia, Hypo and hyper thyrodism, menin-

- Meningococcus, Salmonella
- Shigella, Herpes, Dengue, Polio
- Candida, Cryptococcus, Aspergillus

Mechanism of action and side effects of the following drugs

- Antipyretics and analgesics, Antibiotics,
- and cardiac vasodilators, Antiviral, An- Lichen Planus. tiparasitic, Antifungal, Immunosuppres- 4. General Surgery:

7. Forensic Medicine and Toxicology:

Cardio-vascular, cardiac output, blood Forensic examination of injuries and Laryngeal tumor, oral and esophageal pressure, regulation of cardiovascular wounds; Examination of blood and semi-tumors. nal stains; poisoning, sedative overdose Peripheral arterial diseases, varicose hanging, drowning, burns, DNA and finge

PAPER - II

1. General Medicine:

Etiology, clinical features, diagnosis and principles of management (including prevention) of: - Tetanus, Rabies, AIDS, Dengue, Kala-azar, Japanese Encephalitis.

Etiology, clinical features, diagnosis and principles of management of:

Ischaemic heart disease, pulmonary embolism

Bronchial asthma.

ferentiation between benign, malignant, tion syndromes, acid peptic diseases, Vi-

gitis and encephalitis.

Imaging in medical problems, ultrasound, echocardiogram, CT scan, MRI.

schizophrenia and ECT.

2 Pediatrics:

Immunization, Baby friendly hospital, con- HIV/AIDS, Malaria, E. Histolytica, Giar-genital cyanotic heart disease, respiratory distress syndrome, broncho - pneumonias, kernicterus. IMNCI classification and management, PEM grading and management. ARI and Diarrhea of under five and their management.

3. Dermatology:

Antimalaria; Antikala-azar, Antidiabetics Psoriasis, Allergic dermatitis, scabies, ec-Antihypertensive, Antidiuretics, General zema, vitiligo, Stevan Johnson's syndrome,

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

veins, coarctation of aorta

Tumors of Thyroid, Adrenal Glands

Abscess, cancer, fibroadenoma and adenosis of breast.

Bleeding peptic ulcer, tuberculosis of bowel, ulcerative colitis, cancer stomach. Renal mass.cancer Prostate..

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

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

tension, liver abscess, peritonitis, carci- eradication of: noma head of pancreas.

Fractures of spine, Colles' fracture and Sis. bone tumors.

Endoscopy

Laprascopic Surgery.

ing Family Planning:

Diagnosis of pregnancy.

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 or premature newborn.

Diagnosis and management of anemia. Preeclampsia and Toxaemias of pregnancy, Management of Post menopausal Syndrome.

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

Cancer cervix.

Leucorrhoea, pelvic pain, infertility, dysfunctional uterine bleeding (DUB), amenorrhoea, Fibroid and prolapse of uterus.

6. Community Medicine (Preventive and Social Medicine):

Principles, methods, approach and measurements of Epidemiology

Nutrition, nutritional diseases / disorders & Nutrition Programmes.

Health information Collection, Analysis and

Objectives, components and critical analy-Splenomegaly, cholecystitis, portal hyper- sis of National programmes for control/

Malaria, Kala-azar, Filaria and Tuberculo-

HIV/AIDS, STDs and Dengue

Critical appraisal of Health care delivery

5. Obstetrics and Gynaecology includ- Health management and administration: Techniques, Tools, Programme Implementation and Evaluation.

> Objective, Component, Goals and Status of Reproductive and Child Health, National Rural Health Mission and Millennium Development Goals

> Management of hospital and industrial