

DETAILED SYLLABUS FOR THE POST OF ASSISTANT PROFESSOR IN ANATOMY {GOVERNMENT HOMEIO MEDICAL COLLEGE}

(Cat.No. : 47/2020)

(TOTAL MARKS 100)

1. MODULE.1 (10 MARKS)

1(1).GENERALANATOMY & MICRO ANATOMY (5 MARKS)

Modern concept of cell,Epithelial Tissue, Connective Tissue(adipose tissue),Cartilage,Bone,joints,Vascular tissue Muscular tissue (cardiac muscle), Nervous tissue,Skin,Placenta and Umbilical cord

1(2) SYSTEMATIC HISTOLOGY (5 MARKS)

Trachea,Lungs, Salivary glands, Tongue, Oesophagus, Stomach, Small intestine, Large intestine, Endocrine glands, Cerebrum, Cerebellum, Spinal cord, Uterus, Ovary, Testes

II. MODULE. 2. (10 MARKS)

GENERAL EMBRYOLOGY

Oogenesis, Ovarian cycle, Menstrual cycle, Spermatogenesis, Fertilisation, Implantation, It's clinical Importance, Bilaminar embryo, Trilaminar embryo, Intraembryonic mesoderm and folding of embryo, Placenta (formation and circulation), Foetal membranes, umbilical cord embryonic period of development, fetal period of development, Teratogenesis, Prenatal diagnosis of Fetal diseases and malformations

111. MODULE.3 (5 MARKS)

3. GENETIC INDIVIDUALITY

- 3(a) Elementary genetics
- 3(b) Mendel's Laws and their significances
- 3(c) Applied genetics

IV MODULE.4

4. REGIONAL ANATOMY (75 MARKS)

(Emphasis on developmental Anatomy, broad relationship, surface marking, Radiological Anatomy, and applied Anatomy)

4.(1) EXTREMITIES (15 MARKS)

- (a) Skeleton, position and functions of joints
- (b) Muscle groups, lumbar plexus
- (c) Arterial supply, venous drainage, neuro vascular bundles, lymphatics, relation of nerves to bones
- (d) joints(lumbosacral, hip, knee and ankle joints)
- (e) Radiology of bone and joints, Applied Anatomy and surface marking - main arteries and nerves

4 (2) THORAX (15 MARKS)

(a) Skeleton of joints of muscles of chest wall- diaphragm, innervation of abdominal and thoracic respiration, difference with age
Mammary gland lymphatic drainage
(b) pleura, lungs
(c) Heart and major vessels
(d) Mediastinum
(e) Radiology (heart, aorta, lung, bronchogram), surface marking, applied Anatomy- referred pain

4 (3) ABDOMEN AND PELVIS (20 MARKS)

(a) abdominal wall- skin and muscles, innervation of fascia, peritoneum, blood vessels, lymphatics, autonomic ganglia and plexus
(b) Stomach, small intestine, caecum, appendix, large intestine
(c) Duodenum, pancreas, kidneys, uterus, suprarenal
(d) Liver and gall bladder
(e) pelvic viscera, vessels and nerves of pelvis, lumbosacral plexus, autonomic ganglia
(f) blood vessels and nerve plexus of abdomen, portal venous system
(g) Applied anatomy:- referred pain, portosystemic anastomosis, surface marking development and anomalies

4 (4) Head and Neck (15 MARKS)

(a) Scalp:- innervation, vascular supply middle meningeal artery.
(b) Face main muscles, muscles of facial expression, muscles of mastication, innervation of skin and repair muscles, vascular supply, principles of repair of scalp and face wrinkles
(c) Eye lids, eyeball and lacrimal apparatus, extraocular muscles
(d) Nose and paranasal sinuses
(e) Oral cavity and Pharynx
(f) Larynx
(g) Cervical vertebra, joints of head and neck.
(e) Superficial and deep structures of neck, Thyroid gland and its blood supply, parathyroid, trachea, oesophagus
(f) Teeth and dentition
(g) External, middle and internal ear.
(h) Applied anatomy, surface marking- parotid gland, middle meningeal artery, common, internal and external carotid arteries

4 (5) Neuro Anatomy (10 MARKS)

(a) Functions of meninges
(b) Cerebrum- areas of localisation, vascular supply basal ganglion, internal capsule
(c) cerebellum- functions
(d) Brainstem, cranial nerves, palsies.
(e) Cerebrospinal fluid- formation, circulation, function, absorption., areas of distribution of cranial nerves.
(f) Autonomic nervous system- location, distribution, functions.
(g) Applied anatomy of lumbar puncture, referred pain, spinal anesthesia, increased intracranial pressure

NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper.