

[SYSTEMIC PHYSIOLOGY]

THEORY

1. DIGESTIVE SYSTEM:

Introduction of digestive system, Histological structure of salivary glands & secretion of Saliva. Composition, secretion and function of Gastric juice, Pancreatic juice, Succus entericus and Bile. Movements of Alimentary canal and their functions, Formation of Faeces and Defecation. Structure and & functions of Liver, Digestion of carbohydrate, protein and lipids, Absorption of water.

NIZAM-E-HAZM:

Tamheed-e-nizam-e-hazm, Khurdbeeni sakht of ghudood-e-Luabiya, Luab-e-dahan ki tarkeeb, iski tarssho aur afaal, rutubat-e-maaddi, rutubat-e-banqras, rutubat-e-mayvi, aur rutubat-e-safravi ki tarkeeb, tarassho aur afaal, Majra-e-ghizai ke harkat aur unke afaal, Fuzla ki banavat-o-Iqhraj, Jigar ki saaqht-o-afaal, Hazme- Nishashta, Shorain and Shaham, Paani ka injezab.

2. RESPIRATORY SYSTEM:

Introduction of Respiratory system/organs, histological structure, Respiratory muscles & functions of respiratory system/organs, Transport of Oxygen & Carbon dioxide, Gaseous exchange in lungs and tissues, Centres of respiration, Artificial respiration and its methods, Pulmonary Volume, Pulmonary Capacities, Dyspnoea, Anoxia, Apnoea, Hypercapnia, Physiological effect of High altitude & under water.

NIZAM-E-TANAFUSS:

Mukhtalif tanaffussi aaza ki tamheed, khurdbeeni sakht, Uzlaat-e-tanaffuss aur unke afaal, Oxygen aur Carbon di oxide ki muntaqheeli, Riya aur insaja may gason ka tabadila, Tanaffuss ke marakiz, Masnooi tanaffuss aur inke mukhtalif tareekhe, Jasamat-e-reviya, Waqaat-e-reviya, Usre teanaffuss, Qillat-e-baad, Dushwaar-e-tanaffuss, Izdiyaad-e-tanaffuss, Sat-he martafa aur gehre paani ke feliyati asraat.

3. EXCRETORY SYSTEM:

Introduction to the organs of excretion

KIDNEYS:

Structure and functions, Nephron, functions of glomerulus, Formation, composition & volume of urine, Normal and Abnormal constituents of Urine, Reaction and Specific Gravity of Urine, Role of Kidney in maintenance of body temperature & Acid base balance, Micturation- definition and mechanism.

SKIN:

Structure and functions of skin [Integument], Sweat, regulation of body temperature, abnormal and sub-normal temperature.

NIZAM-E-IQHRAJ-E-BOWL:

Aaza-e-bowl ka taaruf

KULLIYA:

Sakht aur afaal, Kulvi ikai, Uqda-e-Urooq ke afaal, bowl ki paidaish, tarkeeb aur miqhdar, Bowl ke tabayyi aur ghair tabayyi ajza, Bowl ka raddo amal aur wazn-e-makhsoos, Hararat-e-badaniya ko aetadal par rakhne ke liye gurdon ka amal, tarsh-e-qhalvi tavazun, Iqhranj-e-bowl ki tareef aur meekaniya

JILD:

Jild ki sakht aur afaal, Paseena, Hararat-e-badaniya ka tavazun, ghair tabiyyee hararat aur qillat-e-hararat

4. NERVOUS SYSTEM [in brief]:

Nerve structure, functional aspects of nerves, fore brain, hind brain, meninges, mid brain, medulla oblongata, spinal cord, cerebro-spinal fluid and its function, Function of central nervous system.

NIZAM-E-AASAB [Ikhtesaar ke saat]:

Aasab ki sakht aur afaal-e-muqhaddum wa muakkkhir-e-dimag, butoon-e-dimag, ausat dimag, Raas un nukha, nukha, rutubat-e-dimaghiya aur nukhaiya, Aasabi 16mraz16 ke afaal.

5. SENSORY ORGANS:

Physiology of Taste, Smell, Hearing Vision and touch

NIZAAM-E-SHIRKE AFAAL:

Mechania - Zaika, Sha'ama, Sama'at, basarat aur lams

6. ENDOCRINE SYSTEM:

General description of Endocrine glands, Secretions and functions of Pituitary, Thyroid, Parathyroid, Thymus, Supra-renal glands, Pancreas, Ovaries and Testes.

GHUDOOD-E-GHAIR NAAQILA:

Ghudood-e-ghair naaqila ka aam bayan, Ghudood-e-Nikhamiya, darqiya, Jawul darqiya, temusiya, fauqhul kulliyya, banqras, khusyat-ur-raham and Khusiya ke ifrazaat aur afaal.

7. Male and Female Reproductive System:

Male reproductive system:

Male reproductive organs, puberty, spermatogenesis, composition of semen, prostate glands and its function.

Female reproductive System:

Menstruation, ovulation, fertilization and implantation.

Nizame tauleed Mardana wa Zanana :

Nizam-e-Tauleed Mardana:

Aza-e-Tauleed Mardana, Buloogat, Haiwane manwiya kay irtiqaee madarij, Tarkeeb-e-Mani, guda-e-Mazi aur uske afaal.

Nizam-e-Tauleed Zanana:

Daura-e-Tams, Amal-e Tabaveez, Baar-aawari and Isteqrara Hamal