BEMS First Professional.

Anatomy -1 (Theory)

**Nervous System اعصابی نظام:** Introduction to

a) C.N.S., Different parts of C.N.S. with their brief functions, Peripheral nervous system (cranial and spinal nerves) Introduction.

b)Autonomic **خود** کارNervous System**:** Introduction to parasympathetic and sympathetic nervous system.

**GENERAL HISTOLOGY عمومی علم النسیجہ**

1. **Histology** will be taught concurrently with anatomy throughout the course. Underlying principles of histological techniques and staining specific tissues should be explained. Most of teaching will be done on stained and mounted sections and every type of normal tissues will be covered.

## 2. Microscopy

3. **Cell:** Cell as a whole, Cell membrane, Interior of cell, Nucleus

4. **Epithelial Tissues**

5. **Connective Tissue Proper**

Cartilageغضروف

2. Bone عظم

3. Muscular Tissue عضلانی نسیجہ

4. Nervous Tissue اعصابی نسیجہand Nervous Systemاعصابی نظام: The nervous system, Cerebral cortexمخی قشر, Cerebellar cortexمخیخی قشر, Spinal cord حرام مغز

5. Lymphatic System لمفاوی اعضا

6. Circulatory System **دوران خون**

7. Integumentory System جلد

8. Routine Histological Techniques

**D. GENERAL EMBRYOLOGYعلم الجنین عمومی**

1. **Male and female reproductiveتناسل system**

2. **Cell division خلوی تقسیمand Gametogenesis**

3. **Fertilization, cleavage, blastocyst formation and implantation**

4. **Development during second week**

5. **Development during third week**

Embryonic period

2. Fetal period

3. Fetal membrane (amniotic cavity, yolk sac, allantois, umbilical cord and placenta)

Anatomy Practical:

1. Dissection / Demonstration of lower limb

***Note: -****Students shall maintain their practical Note Books with diagrams in accordance with the guidance of their relevant subject teachers and shall certify by the same teacher.*

## Recommended Books:

1. Romanes, G.J: **Cunningham’s Manual of Practical Anatomy**. Oxford, Oxford University Press, 3 volumes (2007).
2. Gray’s Anatomy: **Descriptive and Applied**. London, Longmans (2008).
3. J.G. Romanes. London **Cunningham’s Textbook of Anatomy**. Oxford University Press (2005).
4. Snell, R.S**. Clinical Anatomy**, Boston, Little, Brown and Company (2012).
5. Keith L. More and T.V.N. Persaud, Philadelphia, **Clinically Oriented Human Anatomy.** W.B. Saunders (2011).
6. Nzeeruddin Ahmed, **Tashreh Moalijeen**, Qarreol Bagh, Delhi (1933).
7. Syed Muhammad Kamaluddin Hamdani, **Tashreh Hamdani**, Urdu Bazar, Lahore (1975).
8. Mohammed Saeed, **Kitabul Abadan**, Bait-al-Hikmat, Karachi (1993).
9. Nazeruddin Ahmed, **Tashreeh Moalijeen**, Part 1, Bhawalpur Govt., Tibbiya College, Bahawalpur (1965).