

# **2019 Scheme**

**Q.P. Code: 111001**

**Reg. no.: .....**

## **First Professional MBBS Degree Regular/Supplementary Examinations February 2022 Human Anatomy - Paper I**

**Time: 3 Hours**

**Total Marks: 100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

### **Long Essays**

**(2x15=30)**

1. A 55-year-old male brought to the emergency department with complaints of severe squeezing chest pain, breathing difficulty, sweating and pain along the inner aspect of left upper limb. After taking an electrocardiogram a provisional diagnosis of acute myocardial infarction was made. Apply your knowledge in anatomy and answer the following questions related to coronary artery.
  - Describe the origin, course, relations and branches of left coronary artery.
  - Describe the arterial supply of conducting system of heart.
  - Describe the venous drainage of heart.
  - Name two arteries supplying the heart most commonly involved in ischemic heart disease.

(6+3+4+2)
2. Describe the arches of foot under following headings:
  - Classification
  - Formation
  - Factors responsible for maintenance of arches
  - Functions.

(2+4+6+3)

### **Short essays**

**(5x8=40)**

3. Chromosomal aberrations.
4. Lymphatic drainage of mammary gland and its applied significance.
5. Classify cartilage with suitable examples. Describe the structure of elastic cartilage.
6. Divisions and derivatives of intraembryonic mesoderm.
7. Supination and pronation.

### **Short answers**

**(4x4=16)**

8. Lateral rotators of hip joint.
9. Spermatogenesis.
10. Anatomical basis of claw hand.
11. Blood supply of long bone.

### **Draw a neat labeled diagram**

**(4)**

12. Mediastinal surface of right lung.

### **Name the following**

**(10x1=10)**

13. The nerve injury which leads to winging of scapula.
14. Muscles supplied by superficial peroneal nerve.
15. Contents of quadrangular space.
16. Parts of placenta.
17. Developmental sources of interatrial septum.
18. Name the epithelium lining blood vessel.
19. Boundaries of transverse sinus of pericardium.
20. Karyotype of Turner's syndrome.
21. Sites of ectopic pregnancy.
22. Nerve and artery passing deep to inferior extensor retinaculum of foot.

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