

**First Year B.Sc Optometry Degree Supplementary Examinations April 2025**  
**Paper I - Anatomy**  
**(2016 Scheme)**

Time: 3 hrs

Max marks: 80

- 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
- Write section A and section B in separate answer books. Do not mix up questions from section A and section B.

**Q P Code: 121013****Section A – General Anatomy****Marks: 40****Essay:****(10)**

1. Describe different types of cartilage with labelled diagrams, give suitable examples for each

**Short notes:****(3x5=15)**

2. Synovial joints – types and structure.
3. Brain stem.
4. Spleen.

**Answer briefly:****(5x2=10)**

5. Microscopic structure of medium sized artery.
6. Compound epithelium.
7. Circle of Willis.
8. Extra hepatic biliary apparatus.
9. Coronary sinus.

**Fill in the blanks:****(5x1=5)**

10. Type of epithelium present in tonsil is \_\_\_\_\_.
11. Bile duct opens into \_\_\_\_\_
12. Coverings of cartilage and bone are \_\_\_\_\_ and \_\_\_\_\_ respectively.
13. Left coronary artery divides into \_\_\_\_\_ and \_\_\_\_\_
14. Osteoclast found in bone are \_\_\_\_\_ type of cells.

\*\*\*\*\*

**Q P Code: 122013****Section B – Ocular Anatomy****Marks: 40****Essay:****(10)**

1. Describe the lacrimal apparatus under the following headings:  
a) Components                      b) Innervation                      c) Function

**Short notes:****(3x5=15)**

2. Corneal reflex pathway
3. Layers of the retina
4. Visual pathway

**Answer briefly:****(5x2=10)**

5. Fovea centralis
6. Conjunctiva
7. Accommodation reflex
8. Retinal blood supply
9. Ciliary Body

**Fill in the blanks:****(5x1=5)**

10. Sensory innervation of cornea is by \_\_\_\_\_ nerve.
11. Trochlear nerve supplies \_\_\_\_\_ muscle.
12. The optic canal transmits \_\_\_\_\_ and \_\_\_\_\_.
13. \_\_\_\_\_ is the transparent anterior part of the eye.
14. The retina is derived from \_\_\_\_\_ layer of the optic cup.

\*\*\*\*\*