



PROGRAM : OPTOMETRY/NURSING/BSc

SUBJECT : HUMAN ANATOMY

CODE : HAN01B1/HAN10B1/HAN20B1/HAN1B10/HAN1B20

DATE : SUPPLEMENTARY EXAMINATION
JANUARY 2017

DURATION : 180 Minutes (Sec A: 90 Min; Sec B: 90 Min)

WEIGHT : 50: 50

TOTAL MARKS : 100 Marks (Sec A: 50 marks; Sec B: 50 Marks)

EXAMINER : E.E BRUWER

MODERATOR : E. SWANEPOEL

NUMBER OF PAGES : 3 PAGES

INSTRUCTIONS : QUESTION PAPER MUST BE HANDED IN.

REQUIREMENTS : 2 X EXAMINATION SCRIPTS.

INSTRUCTIONS TO CANDIDATES:

1. SECTION A: 5 QUESTIONS AND SECTION B: 2 QUESTIONS.
 2. ANSWER SECTION A AND B IN SEPARATE ANSWER SCRIPTS.
 3. THIS QUESTION PAPER MUST BE RETURNED WITH ALL YOUR EXAMINATION ANSWER SCRIPTS.
 4. MARK ALLOCATION: ½ MARK PER FACT UNLESS INDICATED OTHERWISE.
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SECTION A (HAN01B1/HAN10B1; HAN1B10) TIME: 90 min TOTAL: 50 marks

QUESTION 1

- 1.1 Provide the names, position and histological structure of the Heart valves. (5)
- 1.2 Briefly describe the mediastinum of the Thorax. (2)
- 1.3 Describe the position and structure of the Cardiac skeleton. (3)
- 1.4 List the layers of the Heart wall and briefly describe the position and anatomy of each layer. (7½)
- [17½]**

QUESTION 2

- 2.1 Describe the histology (microscopic anatomy) of the Respiratory mucosa of the trachea. Include in your answer the relation between its structure and function. (5)
- 2.2 Describe the structure and position of the main Bronchi. (4)
- [9]**

QUESTION 3

Describe the location of the following organs/structures:

- 3.1 The Pituitary gland (3½)
- 3.2 The Thymus (1½)
- 3.3 The Pineal body (1)
- 3.4 The Pituitary gland (4)
- 3.5 The Pancreas (1½)
- [12½]**

QUESTION 4

Describe the structure and components of Blood plasma. **[8½]**

QUESTION 5

List the anterior, medial and terminal branches of the External carotid artery respectively.

[2½]

TOTAL MARKS: 50

SECTION B (HAN01B1/HAN20B1; HAN1B20) TIME: 90 min TOTAL: 50 marks

QUESTION 1

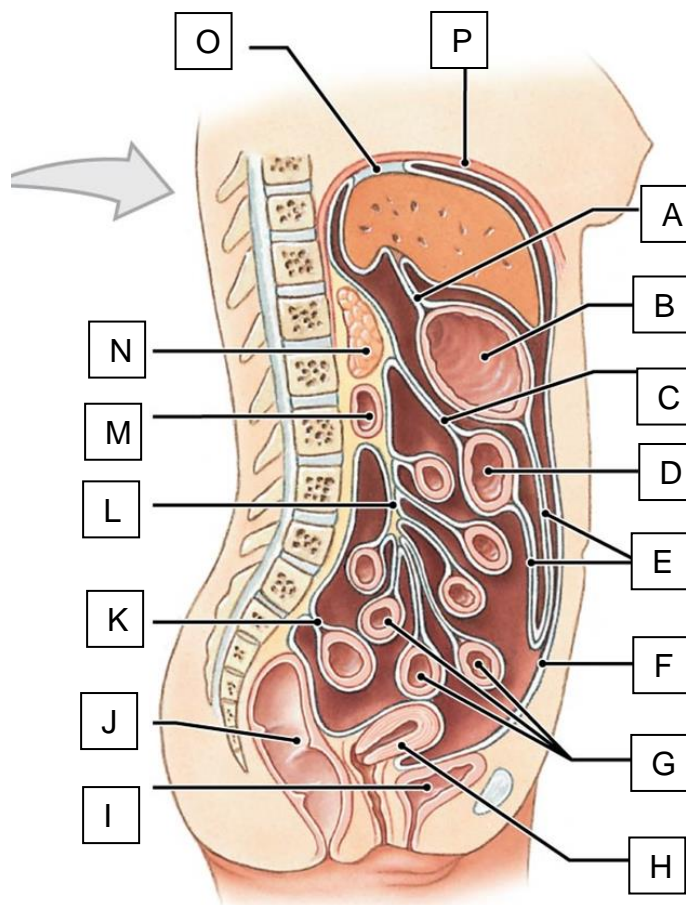
- 1.1 List and describe the location of the respective Salivary Glands. (5)
- 1.2 Describe the flow of bile from the porta hepatica to the Duodenum. (3½)
- 1.3 Describe the position of the Kidneys. (3½)
- 1.4 Describe the special features of the Colon. (4)
- 1.5 Describe the location and the content of the Renal sinus. (5½)
- 1.6 Describe the location and macroscopic anatomy of the Uterine tubes. (7½)
- 1.7 Describe the position and structure of the Prostate gland. (5)
- 1.8 Discuss the position and structure of the Female bladder. (5)
- 1.9 List and describe the anatomy of the regions of the male Urethra. (3)

[42]

QUESTION 2

Refer to Figure 1 and Provide labels for structures A to P.

[8]



TOTAL: 50 MARKS