



PROGRAM : BSC

SUBJECT : HUMAN ANATOMY I

CODE : HAN 1B20

DATE : NOVEMBER EXAMINATION
11 NOVEMBER 2017

DURATION : 90 MINUTES

WEIGHT : 50 : 50

TOTAL MARKS : 50

EXAMINER : N JOOSTE

MODERATOR : E SWANEPOEL

NUMBER OF PAGES : 7 PAGES

INSTRUCTIONS : QUESTION PAPER MUST BE HANDED IN

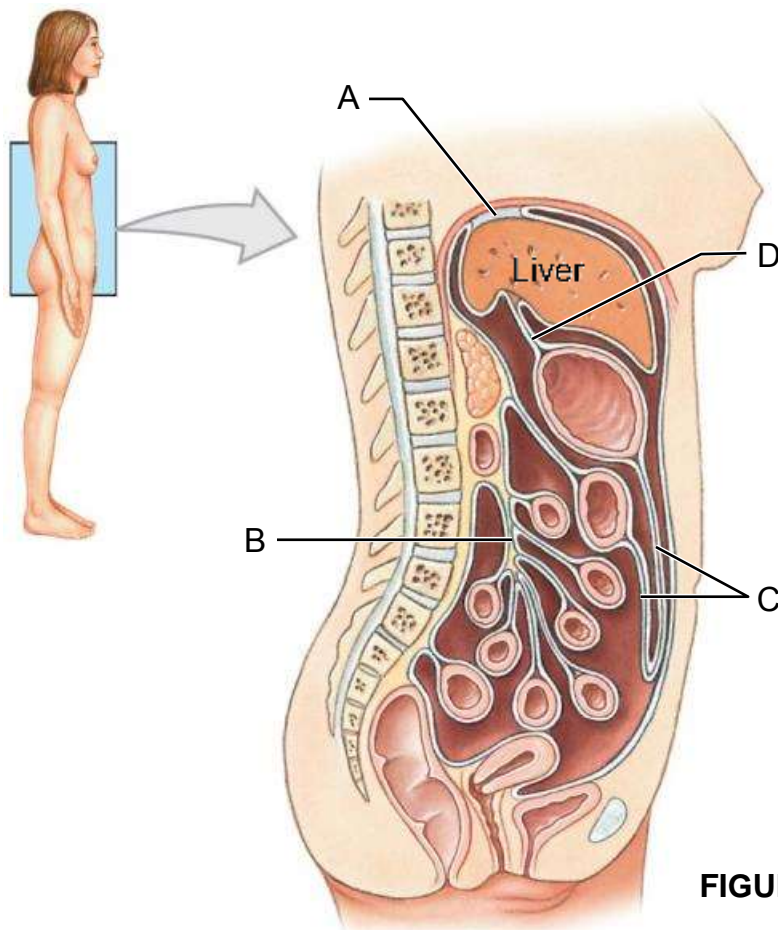
REQUIREMENTS : 1 X EXAMINATION SCRIPT

INSTRUCTIONS TO CANDIDATES:

1. THIS PAPER CONSISTS OF 5 SECTIONS.
2. ALL SECTIONS MUST BE ANSWERED IN THE SEPARATE EXAMINATION SCRIPT PROVIDED.
3. THIS QUESTION PAPER MUST BE RETURNED WITH ALL YOUR EXAMINATION ANSWER SCRIPTS.
4. MARK ALLOCATION: ½ MARK PER FACT UNLESS INDICATED OTHERWISE

SECTION A: DIGESTIVE**QUESTION 1**

Provide labels for structures A to D in Figure 1. Write only the letter and appropriate answer in your answer script (E.g. A – organ).

[2]**FIGURE 1****QUESTION 2**

Make a labelled diagram of the tissue layers typically found in the wall of the digestive system.

[5]

QUESTION 3

List the **FOUR** parts of the duodenum and the vertebral levels where they are found. [4]

SECTION A SUBTOTAL: 11

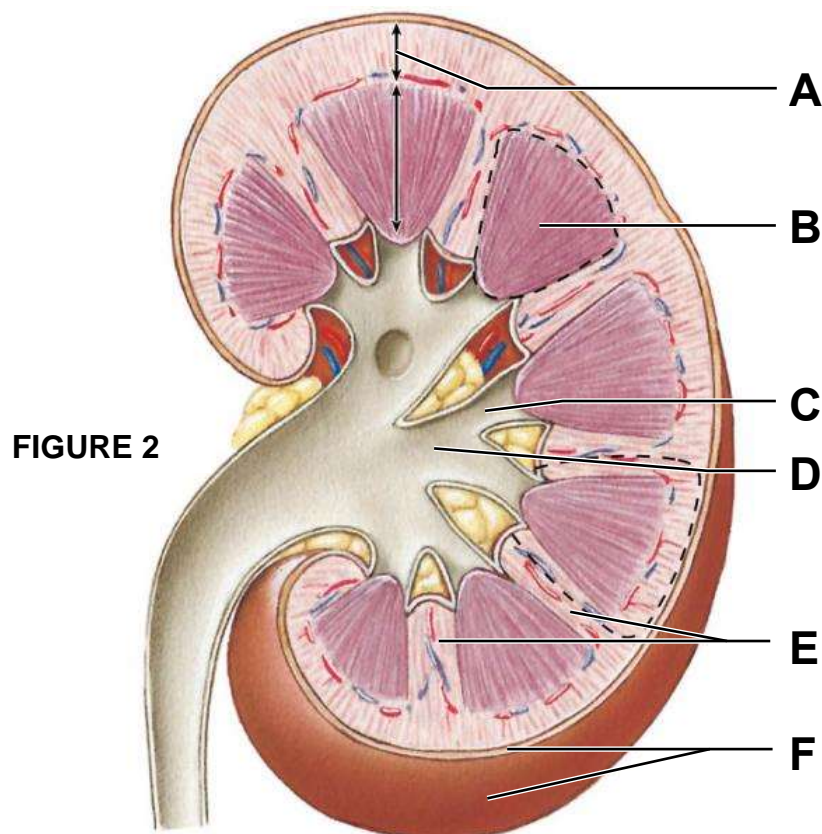
SECTION B: URINARY**QUESTION 1**

Describe the histology of the filtration membrane of the renal corpuscle.

[3]

QUESTION 2

Provide labels for structures A to F in Figure 2. Write only the letter and appropriate answer in your answer script (E.g. A – organ). [3]

**QUESTION 3**

Describe the trigone of the bladder.

[3]

SECTION B SUBTOTAL: 9

SECTION C: MALE REPRODUCTIVE**QUESTION 1**

List the layers of the scrotum from external to internal. [3]

QUESTION 2

Describe the descent of the testis. [3]

QUESTION 3

Describe the location of the ductus deferent. [3]

QUESTION 4

Compare the corpus cavernosum to the corpus spongiosum. [3]

SECTION C SUBTOTAL: 12

SECTION D: FEMALE REPRODUCTIVE**QUESTION 1**

List the four ligaments that stabilise the ovaries. [2]

QUESTION 2

Explain the difference between the following structures:

2.1. Corpus luteum and Corpus albicans (1½)

2.2. Infundibulum and Isthmus of the uterine tubes (2)

2.3. Cervix and Fornix (2½)

[6]

SECTION D SUBTOTAL: 8

SECTION E: MULTIPLE CHOICE QUESTIONS**QUESTION 1**

The following statements about the esophagus are correct **EXCEPT**:

- A. Is posterior to the trachea
- B. Contains only skeletal muscle in the superior two-thirds
- C. Contains smooth muscle in the inferior third
- D. Is lined by stratified squamous epithelium
- E. Pierces the diaphragm at level T10

QUESTION 2

The gallbladder is associated with the _____ lobe of the liver:

- A. Quadrate
- B. Caudate
- C. Left
- D. Right
- E. Falciform

QUESTION 3

The following cells are found in the stomach EXCEPT:

- A. Parietal cells
- B. Beta cells
- C. Simple columnar epithelium
- D. Goblet cells
- E. Chief cells

QUESTION 4

The kidneys are found at vertebral level:

- A. L1 – L3
- B. T10 – L3
- C. T12 – L3
- D. L2 – L4
- E. L2 – L5

QUESTION 5

The vasa recta are associated with the:

- A. Nephron capsule
- B. Juxtaglomerular apparatus
- C. Cortical nephron
- D. Juxtamedullary nephron
- E. Collecting duct

QUESTION 6

The interstitial cells are:

- A. Found in the ovaries
- B. Provide attachment site for the spermatids
- C. The site where spermiogenesis is completed
- D. Secretes testosterone
- E. Is the spermatogonium

QUESTION 7

The following statements about the prepuce is correct EXCEPT:

- A. Can be removed during circumcision
- B. Known as the foreskin
- C. Produces smegma
- D. Covers the corpus cavernosum
- E. Covers the corpus spongiosum

QUESTION 8

The functional zone of the endometrium:

- A. Undergoes cyclic changes
- B. Is external to the basilar zone
- C. Receives blood from the straight arteries
- D. Contains no glands
- E. Contains a thick smooth muscle layer

QUESTION 9

The epithelium of the vagina is:

- A. simple squamous epithelium
- B. simple columnar epithelium
- C. stratified squamous epithelium
- D. stratified columnar epithelium
- E. transitional epithelium

QUESTION 10

The lactiferous duct:

- A. Is also known as the suspensory ligament
- B. Opens on the areola
- C. Expands to form the lactiferous sinus
- D. Is only found in lactating females
- E. Consists of adipose tissue

SECTION E SUBTOTAL: 10

TOTAL MARKS: 50
