



PROGRAM : *PODIATRY*

SUBJECT : **PODIATRIC ANATOMY II**

CODE : **GVA 212 A**

DATE : SUPPLEMENTARY EXAMINATION
19 JULY 2018

DURATION : 180 minutes

WEIGHT : 50: 50

TOTAL MARKS : 100

EXAMINERS : Prof S NALLA; Ms S ISHWARKUMAR

MODERATOR : Mr P NKOMOZEPI

NUMBER OF PAGES : 9 PAGES

INSTRUCTIONS : QUESTION PAPERS MUST BE HANDED IN.

REQUIREMENTS : 4 X EXAMINATION SCRIPTS

INSTRUCTIONS TO CANDIDATES:

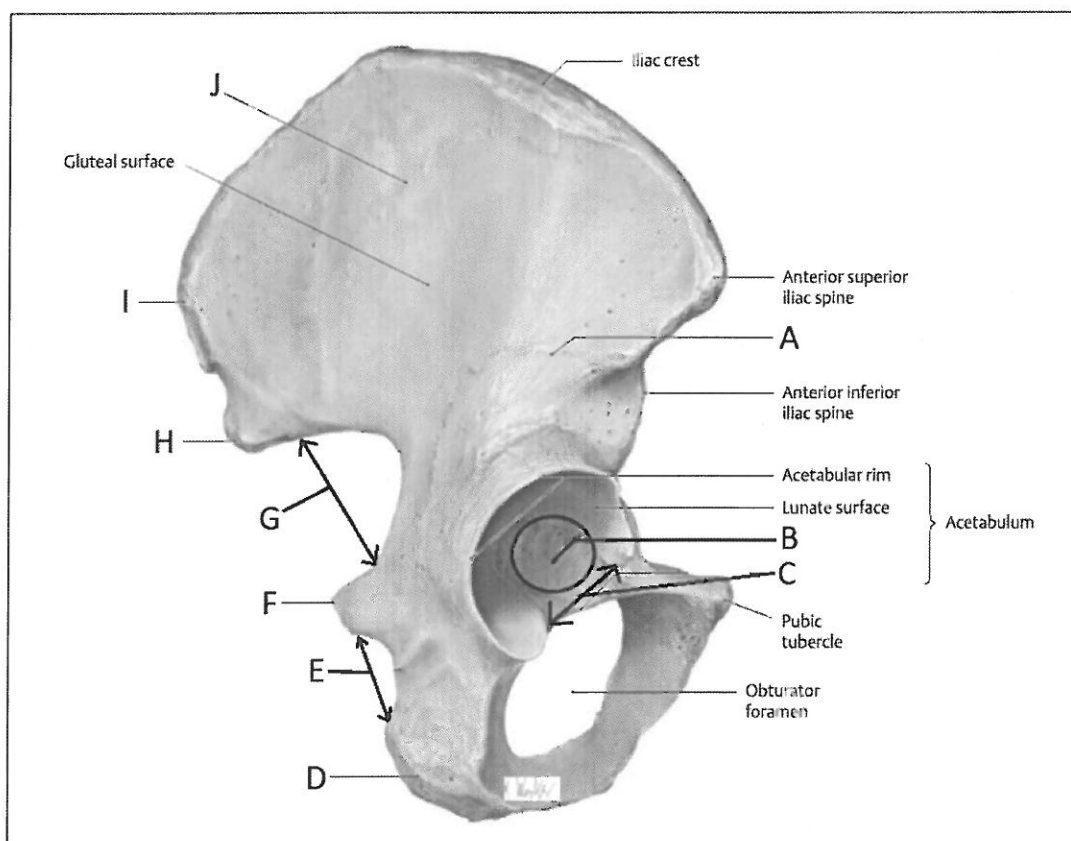
1. THIS PAPER CONSISTS OF 4 SECTIONS.
2. EVERY SECTION MUST BE ANSWERED IN THE SEPARATE EXAMINATION SCRIPT PROVIDED. INDICATE EACH SECTION ON THE FRONT COVER PAGE.
3. THIS QUESTION PAPER MUST BE RETURNED WITH ALL YOUR EXAMINATION ANSWER SCRIPTS.
4. MARK ALLOCATION: ½ MARK PER FACT UNLESS INDICATED OTHERWISE

SECTION A:**GLUTEAL REGION****QUESTION 1**

Provide labels for structures A to J in Figure 1.

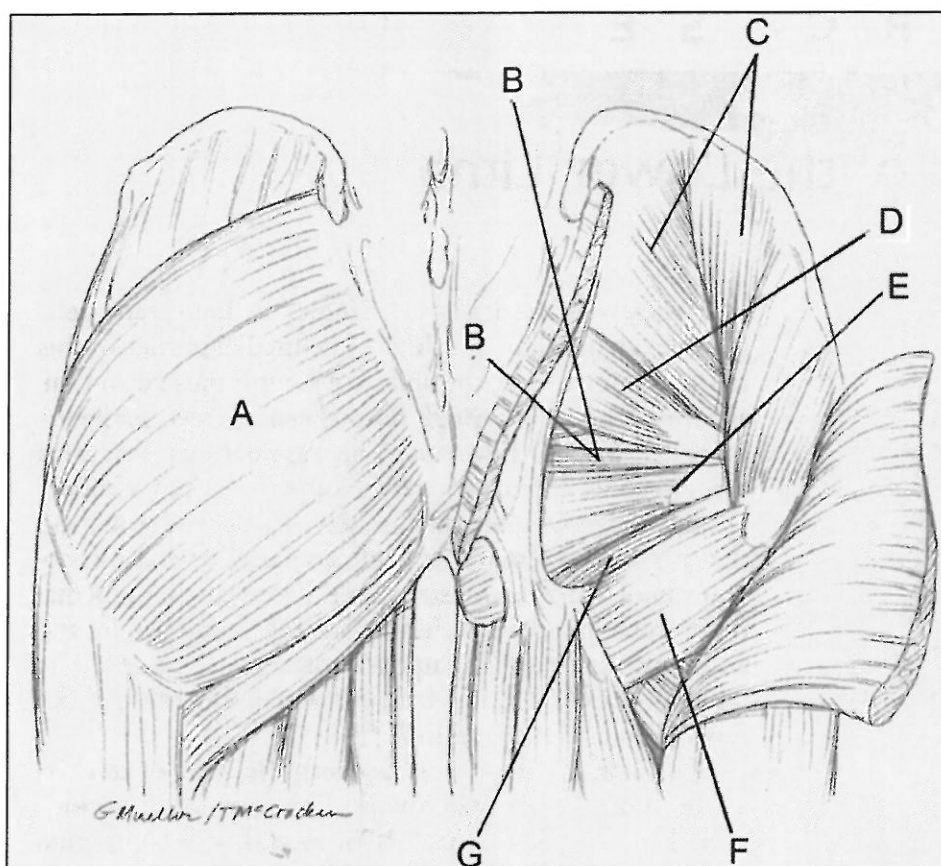
[5]

FIGURE 1



QUESTION 2

Refer to Figure 2 and answer the questions that follow.

FIGURE 2

- 2.1. Provide labels for structures A to G. (7 x ½ = 3½)
- 2.2. Describe the anatomy (attachments or origin/s & insertion/s, action/s and innervation/s) of the following muscles. Your answer may be in the form of a table.
- 2.2.1. Structure B (8 x ½ = 4)
- 2.2.2. Structure D (6 x ½ = 3)
- 2.3. Give the primary action/s of the structure C. (1½)
- 2.4. Give the innervation of structure F. (½)
- [12½]**

QUESTION 3

Write a short note on the anatomy of the Sacro-tuberous ligament.

[4½]

QUESTION 4

Write a note on the origin and course & relations of the Superior gluteal artery.

[3]

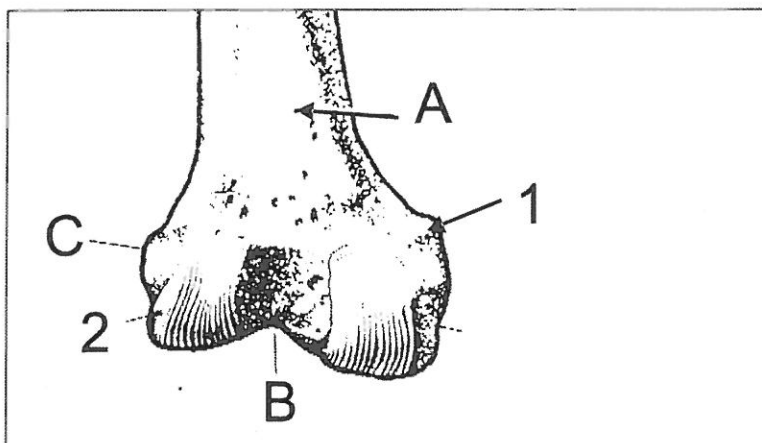
SUBTOTAL SECTION A: 25 MARKS

SECTION B: THIGH REGION

QUESTION 1

Refer to Figure 1 and answer the following questions:

FIGURE 1



- | | | |
|-----|--|------------|
| 1.1 | Identify and side the bone. | (1) |
| 1.2 | Provide labels for structures A to C. | (1½) |
| 1.3 | Name the muscle that attaches to area 1. | (½) |
| 1.4 | Name the part and bone that articulates at area 2. | (1) |
| | | [4] |

QUESTION 2

Describe the anatomy (origin/s, insertion/s, action/s and innervation/s) of the following muscles. Your answer may be in the form of a table.

- | | | |
|-----|------------------|--------------|
| 2.1 | Semimembranosus | (10 x ½ = 5) |
| 2.2 | Vastus lateralis | (6 x ½ = 3) |

[8]

QUESTION 3

Write a short note on the anatomy of the Saphenous hiatus/opening.

[4 x ½ = 2]

QUESTION 4

Describe the Adductor canal under the following subheadings:

- | | | |
|----------------|--|-------------|
| Definition | | (2 x ½ = 1) |
| Extent | | (2 x ½ = 1) |
| Boundaries and | | (6 x ½ = 3) |
| Contents | | (4 x ½ = 2) |

[7]

QUESTION 5

Write a short note on the anatomy of the Iliofemoral ligament including what movement it prevents.

[8 x ½ = 4]

SUBTOTAL SECTION B: 25 MARKS

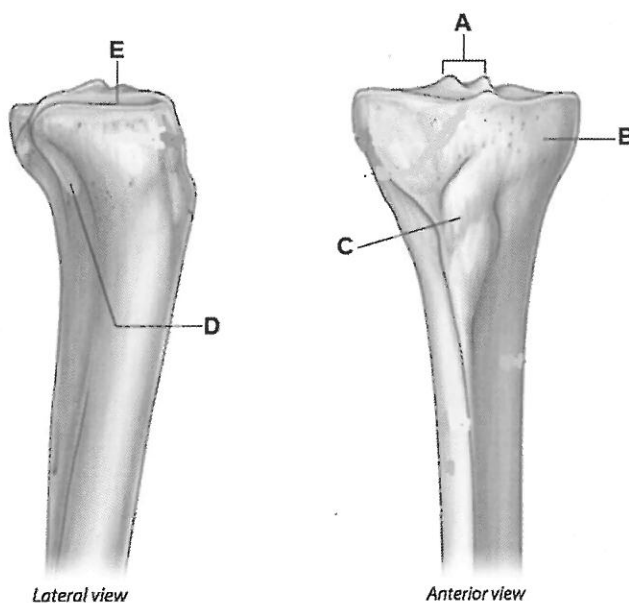
SECTION C – LEG REGION

QUESTION 1

Refer figure 1 below and answer the following question

[3]

Figure 1



- 1.1. Provide labels for structure A to D. (2)
- 1.2. Name structure that attaches to structure C. ($\frac{1}{2}$)
- 1.3. Name structure that articulates with structure E. ($\frac{1}{2}$)

QUESTION 2

In a table formation describe the anatomy (attachment/s or origin/s & insertion/s, action/s and innervation/s) of the following muscles:

- 2.1. Extensor digitorum longus. (8 x $\frac{1}{2}$ = 4)
- 2.2. Fibularis (peroneus) brevis. (8 x $\frac{1}{2}$ = 4)
- 2.3. Gastrocnemius. (12 x $\frac{1}{2}$ = 6)

[14]

QUESTION 3

Write a short note on the origin, course and branches of the **anterior tibial artery**.

[8 x $\frac{1}{2}$ = 4]

QUESTION 4

Write a short note on the origin (including the root value/s), the course and distribution of the **peroneal communicating nerve**. **[8 x ½ = 4]**

SUBTOTAL SECTION C: 25

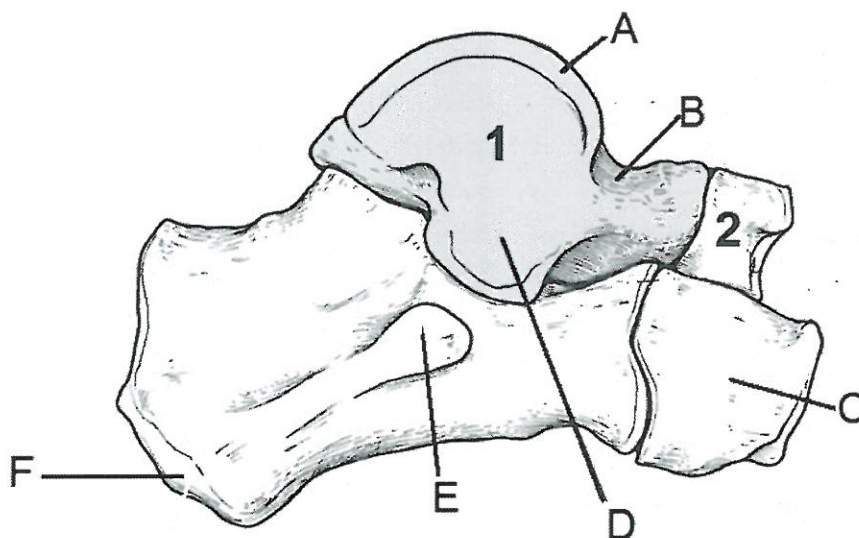
SECTION D: FOOT REGION

QUESTION 1

Refer to Figure 2 and answer the questions that follow.

[4]

Figure 2



- 1.1. Provide labels for structure A to F. (3)
- 1.2. Classify bone C. (½)
- 1.3. Name the joint between bone 1 and bone 2. (½)

QUESTION 2

Copy and complete the table below, describing the (attachment/s or origin/s & insertion/s, action/s and innervation/s of the following muscles:

[13]

Muscle	Origin	Insertion	Innervation	Action
Abductor hallucis	(1½)	(2)	(½)	(1½)
Flexor digiti minimi brevis	(1)	(1½)	(1)	(1)
Flexor accessories	(1½)	(½)	(½)	(½)

QUESTION 3

Write a short note on the **plantar calcaneo-navicular ligament** of the foot. [10 x ½ = 5]

QUESTION 4

4.1. Name the muscles located in the first (1st) layer of the foot. (1½)

4.2. Name the muscles located in the fourth (4th) layer of the foot. (1½)

[3]

SUBTOTAL SECTION D: 25
