**HUMAN ANATOMY COMMUNITY HEALTH (MARKING KEY)**

**SEPTEMBER 2017 CLASS**

**EXAMINATION DONE ON, July 2018**

**SECTION A: Multiple Choice Questions (MCQ)**

1. Which one of the following is not a muscle of mastication?
2. Masseter
3. Temporalis
4. Pterigoid
5. Orbicularis occuli
6. Bones forming cranium include all **except**
7. Temporal
8. Parietal
9. Zygomatic
10. Occipital
11. Which one of the following is not a flat bone?
12. Carpals
13. Ribs
14. Sternum
15. Skull
16. Paranasal sinuses include all **except**
17. Frontal
18. Sphenoid
19. Mastoid
20. Ethmoid
21. Which one of the following bones is not in the cranium?
22. Parietal
23. Temporal
24. Superior conchae
25. Inferior conchae
26. Which part of radius is on the distal end of radius?
27. Styloid process
28. Interrosseus membrane
29. Olecranon process
30. Trochlear notch
31. Which one is true about lumbar vertebral
32. They are smaller than thoracic
33. The distal body forms the lumbo-sacral joint
34. They are square shaped
35. They have bifid spinous process
36. The following muscle connects the upper limb with the thoracic wall:
37. Pectoralis major
38. Biceps brachii
39. Extensor carpi ulnaris
40. Pronator teres
41. Which of the following is contained in the middle ear?
42. Pinna
43. External auditory meatus
44. Auditory ossicles
45. Semicircular canals
46. The liver is located in the ………………… and extends………………., into the………………..Region of the body
47. Left upper quadrant, along the midline, right upper quadrant
48. Right lower quadrant, across midline, left upper quadrant
49. Right upper quadrant, across he midline, left upper quadrant
50. Left lower quadrant, to left upper quadrant

**SECTION B: TRUE / FALSE (10 MARKS)**

1. Proximal raw of carpal bones include
2. Scaphoid
3. Hamate
4. Trapezoid
5. Pisiform
6. Triquetrum
7. About the lungs and bronchi
8. The right lung has 3 lobes
9. The left lung has 2 lobes
10. The hilum of the lungs gives a channel of blood vessels
11. The left bronchus is shorter and straighter than the right
12. The right bronchus is shorter and straighter than the left
13. Components of the upper respiratory tract include
14. Larynx
15. Nasophaynx
16. Trachea
17. Bronchi
18. Nose
19. The following are paired facial bones
20. Maxilla
21. Sphenoid
22. Zygomatic
23. Ethmold
24. Mandible
25. Human ribs:
26. Are 6 pairs
27. 1st rib is horizontal
28. Enclose the lungs
29. Do not articulate with thoracic vertebral
30. All ribs articulate with the sternum
31. Regarding the distal humerus:
32. The capitulum is medial condyle
33. The trochlear marks the medial condyle
34. Has olecranon fossa
35. Has a trochlear notch
36. Has two epicondyles
37. Respond to the following information pertaining to blood supply to the GIT
38. The liver and the stomach are supplied by branches of celiac trunk
39. Ascending and transverse colon are supplied by branches of superior mesenteric artery
40. Descending colon and rectum are supplied by branches of inferior mesenteric artery
41. The stomach is supplied by the inferior mesenteric artery
42. The duodenum is supplied by the renal artery
43. The following form the external female genitalia:
44. Mon’s pubis
45. Clitoris
46. Vagina
47. Batholith’s glands
48. Labia minora
49. The following form part of proximal end of humerus:
50. Lesser trochanter
51. Greater tuberosity
52. Anatomical neck
53. Epicondyle
54. Linear aspera
55. About the pancreas:
56. Is located behind the stomach
57. Has both endocrine and exocrine functions
58. Islets of Langerhans produce pancreatic juice
59. Receives blood supply from coeliac and superior mesenteric arteries
60. Pancreatic duct drains enzymes into the jejunum

**SECTION C: SHORT ANSWER QUESTIONS (40 MARKS)**

1. Name and give the locations of the three pairs of salivary glands (10 mks)
2. Name the 8 carpal bones and name the two joints of the thumb (10 marks)
3. Name at least 10 parts that form the female genitalia (10 marks)
4. Outline five gross components of the respiratory system (10 marks)

**SECTION D: LONG ANSWER QUESTIONS (40 MARKS)**

Q1. Write notes about the anatomy of the esophagus (20 marks)

Q2. Draw and name the parts of the nephron (20 marks)

**END**

**MARKING SCHEME FOR SECTIONS C AND D**

**SECTION C: SHORT ANSWER QUESTIONS (40 MARKS)**

1. Name and give the locations of the three pairs of salivary glands (10 marks)

* **Parotid glands (2 marks)**
  + These are situated one on each side of the face just below the external acoustic meatus (ear). (2marks )
  + **Submandibular glands** (2marks )
  + These lie on each side of the face under the angle of the mandible. (1mark )
  + **Sublingual Glands** (2marks )
  + They lie beneath the oral mucosa of the floor of the mouth between the mandible and the genioglossus muscle. (1mark )

1. Name and give the number of each type of vertebra. (10 marks – 1 mark for name and one for the correct number)

Cervical 7

Thoracic 12

Lumbar 5

Sacral 5

Coccygeal 4

1. Name at least 10 parts that form the female genitalia (10 marks)

* Mon pubis
* Labia majora
* Labia minora
* Hymen
* Clitoris
* Vestibule and Urethral orifice
* Skenes and Bartholins glands
* Vestibular bulbs
* Vagina
* Uterus
* Cervix
* Uterine tubes
* Ovaries

1. Outline five gross components of the respiratory system (10 marks – first five 2 marks each)

* Nose and nasal cavity
* Oral cavity
* Pharynx
* Larynx
* Trachea
* Bronchi
* Lungs
* Muscles of respiration

**SECTION D: LONG ANSWER QUESTIONS (40 MARKS)**

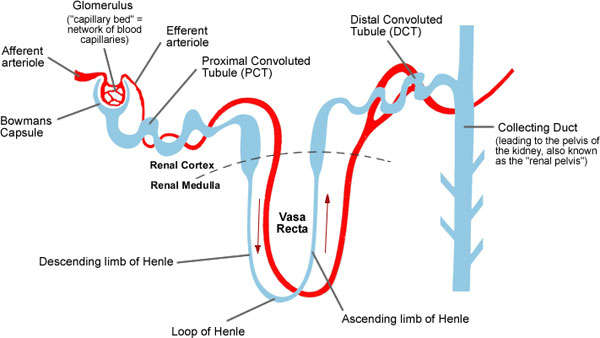
Q1. Write notes about the anatomy of the esophagus (20 marks – **any 20 correct points 1 mark**

**each**)

* Begins in the neck at the level of the lower border of the cricoid cartilage and 6th cervical vertebra
* It is about 25 cm long
* Descends anterior to the vertebral column
* Traverses the diaphragm at the level of T10
* Pierces the diaphragm through the hiatus
* Ends at the gastric cardiac orifice at level of T11.
* It is a muscular tissue
* Upper one third is striated muscles
* Middle third mixed skeletal and smooth muscles
* Lower third is smooth muscles
* Runs a straight course
* Located in the mediastinum
* Connects pharynx with stomach
* The oesophagus has three parts:
  + Cervical part
  + Thoracic part
  + Abdominal part
* Has four constrictions:
  + At its **commencement**, 15cm (6in.) from incisor teeth
  + Where it is crossed by the **aortic arch**, 22.5cm (9in.) from incisor teeth
  + Where it is crossed by the **left principal bronchus**, 27.5cm (11in.) from the incisors
  + As it **traverses the diaphragm**, 40cm (16in.) from the incisors.
* It has four layers:
  + Mucosa
  + Submucosa
  + Muscularis
  + Adventitia
* Submucosa contains secretory glands
* Mucosa contains non keratinized stratified squamous epithelium
* Simple columnar epithelium covers the mucosal junction between the esophagus and stomach
* Upper esophageal sphincter found at the inlet from oropharyngeal
* Lower esophageal sphincter found at the outlet into the stomach

Q2. Draw and name the parts of the nephron (20 marks – **diagram 8 marks, correct labeling 12**

**marks**)



END