the state of the second The state of the s e Gureen es beinere de rigo in to be small 1. a. What is Ech's princ the title Ert's pass, it under the BOWEN UNIVERSITY COLLEGE OF HEALTH SCIENCES of the FACULTY OF BASIC MEDICAL SCIENCES DEPARTMENT OF ANATOMY FIRST PROFESSIONAL MBBS EXAMINATION (RESIT) 2021/2022 SESSION INSTRUCTIONS: ANSWER ALL QUESTIONS. PAPER II (ESSAY) TIME: 3 HOURS ANSWER QUESTIONS AS GROUPED PER BOOKLET: A=1, 2; B=3, 4, and 5; C=6,7and 8; D=9 and 10; E=11 and 12 a. Dermatoglyphics 5 marks

1. a. With the aid of a table classify epithelium 6 marks b. Give examples where they can be found 4 marks

Sale & Assistant Jan 19 1 1 1 1

- 2. A young woman with an 8-week-old pregnancy presents with light vaginal bleeding, severe right lower abdominal pain, pain in the tip of the shoulder and discomfort when micturating or defecating. Discuss the possible embryological basis of the symptoms 10
- 3. In a tabular form with an outstanding criteria, state differences between the right and left
- a. What is Erb's point?
 - b. Describe Erb's paralysis under the following headings
 i. Site of lesion
 ii. Cause

 - iii. Position of the upper limb
 - iv. Motor loss a contre sacre per contre and environmental management and environmental managemental manage

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- 5. Write short note on the superficial venous drainage of the lower limb add a note on its
- 6. Write short essay on the histology of the following:
 - a. Dermatoglyphics 3 marks
 - b. Epidermis of the human skin 3 marks
 - c. Two classes of sweat glands 4 marks
- 7. During the medicals of a 16-year old young athlete into a football academy, an ECG showed inverted or reversed electrical waves. X-ray was then taken and a transposed
 - a. What is this condition called? 2 marks
 - b. What is/are the cause(s) of this condition? 6 marks
 - c. Name a situation that can complicate this condition 2 marks
- 8. Ectopic testes occurrences are quite rare; however, they occur. With your knowledge of
 - a. What is the commonest cause of ectopic testes? 2 marks
 - b. Mention FOUR (4) various abnormal locations testes could lodge in 4marks
 - c. Which of the abnormal locations occurs most frequently? 2 marks
 - d. What is the difference between ectopic testis and cryptorchidism? 2 marks

- 9. A 3-year-old girl was rushed to emergency paediatrics unit on account of excessive cry and irritability. The doctor find out that she was pale, icteric and has hand and foot a. What genetic disorder is this? Imark
- b. Outline the molecular basis of this disorder 4 marks
- c. Using punnett's square only, show how it can be inherited 4marks
- d. The hand and foot swelling is called what? I mark
- 10. Baby XYZ was 4 years old when he developed fever and painful swellings just inferior to his auricles. The doctor advised his parents to allow him take a break from school so as not to infect his peers; as well as take his medications as prescribed so the infection doesn't spread to his reproductive organs.
 - a) Name the anatomical structure that is swollen [1MK]
 - b) What is your diagnosis? [2MKS]
 - c) Are there structures at risk of being compressed within the swollen organ? [1MK]
- 11. a. Describe the muscles of the anterior abdominal wall 5marks
 - b. Differentiate between the male and female pelvis 5marks
- 12. With the aid of annotated diagram(s) describe the sequelae of disruption of various point of the visual pathway 10 marks 10 c 1 1 1 paediet ice very account of various point The dans is find a round me was paid attack and has name and low Welling.

what practic disorder is this? I man

muline the molecular basis of this mander 4 marks

cising punnett's square only show a can be inherited denseles

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day's I was a years old when . . . sloped fever and camely woolings to account

produces. The doctor exercised him and to allow the above a been some where the witte his reers, a coeff as i. . . medications as president above the

trace to the separate state of the second

Name the anatomical structure in a swollen [1.MK]

of What I your diagnosis? [2MK 5]

Are there structures at rick of being, empressed within the smullen ergan [TATK] 4) List the structures in (r) above

c Programmes to the muscles of the united and domination in a

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COLLEGE OF HEALTH SCIENCES FACULTY OF BASIC MEDICAL SCIENCES DEPARTMENT OF ANATOMY

FIRST PROFESSIONAL MBBS EXAMINATION 2021/2022SESSION 17/10/2022 INSTRUCTIONS: ANSWER ALL QUESTIONS. PAPER II (ESSAY) TIME: 3 HOURS ANSWER QUESTIONS AS GROUPED PER BOOKLET: A=1, 2; B=3, 4, and 5; C=6,7and 8; D=9 and 10; E=11 and 12

- 1. With the AID of a well labelled diagram describe the loose areolar connective tissue. (Highlight the cells, fibers and ground substance) 10 marks
- 2. A young woman with an 8-week-old pregnancy presents with light vaginal bleeding, severe right lower abdominal pain, pain in the tip of the shoulder and discomfort when micturating or defecating. Discuss the possible embryological basis of the symptoms 10
- 3. In a tabular form with an outstanding criteria, state differences between the right and left main bronchi 10 marks
- 4. a. What is Erb's point?

2 marks

- b. Describe Erb's paralysis under the following headings
- i. Site of lesion
- ii. Cause
- iii. Position of the upper limb
- iv. Motor loss
- v. Sensory loss

8 marks

- 5. Write short note on the superficial venous drainage of the lower limb add a note on its clinical anatomy 10 marks
- 6. Write short essay on the histology of the following:
 - a. Dermatoglyphics 3 marks
 - b. Epidermis of the human skin 3 marks
 - c. Two classes of sweat glands 4 marks
- 7. During the medicals of a 16-year old young athlete into a football academy, an ECG showed inverted or reversed electrical waves. X-ray was then taken and a transposed heart with mirrored vessels was observed:
 - a. What is this condition called? 2 marks
 - b. What is/are the cause(s) of this condition? 6 marks
 - c. Name a situation that can complicate this condition 2 marks
- 8. Ectopic testes occurrences are quite rare; however, they occur. With your knowledge of
 - a. What is the commonest cause of ectopic testes? 2 marks
 - b. Mention FOUR (4) various abnormal locations testes could lodge in 4marks
 - c. Which of the abnormal locations occurs most frequently? 2 marks
 - d. What is the difference between ectopic testis and cryptorchidism? 2 marks

- A 3-year-old girl was rushed to emergency paediatrics unit on account of excessive cry and irritability. The doctor find out that she was pale, icteric and has hand and foot swelling.
- a. What genetic disorder is this? 1mark
- b. Outline the molecular basis of this disorder 4 marks
- c. Using punnett's square only, show how it can be inherited 4marks
- d. The hand and foot swelling is called what? 1mark
- 10. Pastor Zee a gospel musician presented to the hospital because he could not blow saxophone again and could not close his eyes while praying. The doctor ordered for contrasts Magnetic Resonance Imaging (MRI) of the skull/CNS and CNS Polymerase Chain Reaction (PCR)
 - a) What is your differential diagnosis? 2marks
 - b) State the nerve implicated in your diagnosis 1mark
 - c) Sketch a well labeled diagram of the anatomical course of this nerve in the skull $2^{1/2}$ marks
 - d) List the branches of this nerve responsible for innervating the muscles of facial expression $2^{1/2}$ marks
 - e) Why did the doctor ordered for MRI and PCR? 2marks
- 11. b. Describe all the branches of arteries that supply the abdomen from the abdominal aorta, include annotated diagram. 7marks
 - b. List the ligaments of the uterus 3marks
 - 12. With the aid of annotated diagram(s) describe the sequelae of disruption of various point of the visual pathway 10marks

COLLEGE OF HEALTH SCIENCES FACULTY OF BASIC MEDICAL SCIENCES DEPARTMENT OF ANATOMY

FIRST PROFESSIONAL MBBS EXAMINATION 2020/2021SESSION 15/11/2021 INSTRUCTIONS: ANSWER ALL QUESTIONS. PAPER II (ESSAY) TIME: 3 HOURS

ANSWER QUESTIONS AS GROUPED PER BOOKLET: A=1, 2 and 3; B=4, 5 and 6; C=7;

D=8; E=9, 10 and 11 & F=12

- 1. a. Name and explain the principal processes involved in bone formation. (5Marks)
 - b. What is the origin of the cells involved in fracture repair? (5Marks)
- 2. a. Write an essay on degeneration and regeneration of neurons (5 Marks)
 - b. Felix Denzel complained of inability to work properly with his right hand. He usually sways to the right side while walking. He could not do rapid pronation and supination of his right forearm. Magnetic resonance imaging showed a tumor in his right lobe of the cerebellum. Succinctly write on the histology of the part of the brain affected, highlighting the layers in it (5 Marks).
 - Describe the contribution of the Neural Crest Cells to the development of any two of the following systems (10 Marks)
- i. Endocrine System
- ii. Nervous System
- iii. Connective Tissues
- iv. Cardiovascular system
- 4. Using a diagram, discuss the axilla under the following headings:

i.	Introduction	(1 Mark)
ii.	Boundaries	(6 Marks)
iii.	Contents	(2 Marks)
iv.	Clinical application	(1 Mark)

5. Describe the venous drainage of the lower limb under the following headings:

i.	Superficial, perforating and deep veins	4 marks
ii.	Factors that help in venous return	4 marks
iii.	Applied anatomy	2 marks

Write on maxillary artery and its branches. (10 Marks)

- 7. A19-year-old boy was rushed to a surgical emergency unit on account of persistent, purposeless, painful, penile erection.
 - a) The persistent penile turgidity is called what? (1 Mark)
 - b) Outline the molecular basis of this genetic disorder (3 Marks)
 - c) What is the underline genetic condition? (1 Mark)
 - d) State the pattern of inheritance (1 Mark)
 - e) Using punnett's square only, show how it can be inherited (4 Marks)
 - 8. a) Differentiate a pluripotent and a totipotent cell (2 Marks)
 - b) Explain, adding relevant diagrams, the processes involved in gastrulation (8 Marks)
 - a. Briefly describe the anatomy of the thoracic cage (5 Marks)
 - b. Briefly discuss the anatomy of the lungs adding its applied anatomy (5 Marks)
 - 10. Describe the gross anatomy of any one of the following
 - a. Liver
 - b. stomach

(10 Marks)

- a. Anatomic lobes of the prostate gland. Add a short note on the applied anatomy of the organ (10 Marks) OR
- b. Female urogenital triangle (10 Marks)
- 12. Write short essays on all of the following
 - a. Anatomical basis of clinical features of complete spinal transection at T₁₂ (5
 - b. Relations of the Lateral ventricle of the brain (5 Marks)
 - c. Applied Anatomy of the visual pathway (5 Marks)
 - d. Features of transverse section of the midbrain at level of superior colliculus (5 Marks)

FACULTY OF BASIC MEDICAL SCIENCES DEPARTMENT OF ANATOMY

PERET PROFESSIONAL MEES (RESIT) EXAMINATION 2020/2021SESSION 10/1/2022 SMETRIC TIONS ANSWER ALL QUESTIONS PAPER II (ESSAY) TIME 2 MODISS

ANSWER QUESTIONS AS GROUPED PER BOOKLET: A=1; B=2, 3 and 4; C=5; D=6, ? and & E=9 & F=10, 11 and 12

- a) Entrepondate a pharipotent and a hittpotent cell (2marks)
 - to Eupham, adding relevant diagrams, the processes involved in

Construintion (6 marks)

- Describe the contribution of the Neural Crest Calls to the development of any two of the following systems (10 Marks)
 - i. Emdocrine System
 - is. Neurvous System
 - th Connective Tissues
 - to Cardiovascular system
- 3. Discuss the functions of the following cells: (30 marks)
 - & characteracytes
 - \$ contractions
 - C. SWEECHHEESTS
- 4. a) Write an essay on degeneration and regeneration of neurons (5 marks)
 - b) Felix Decizel complained of inability to work properly with his right hand: life analy receive to the right side white walking, the could not do rapid promation and suprimetion of his right foreign. Magnetic resonance imaging showed a turning in his right lobe of the combaltion.
 Subtinately write on the histology of the past of the brain affected, highlighting the layers in it (6 marks)
- A 19-year-old boy was rushed to a aurginal westigency unit on account of parameter. proposediese, painful, panils resolven.
 - a) The personness punite targettey is called what it Mark)
 - to Charling the surringular huma of this garnetic descented (2 Minutes)

- c) What is your diagnosis? (1 Mark)
- d) State the pattern of inheritance (1 Mark)
- e) Using Punnett's square only, show how it can be inherited (4 Marks)
- 6. a. Using a diagram, what is Erb's point? (3 marks)
 - b. Describe Erb's paralysis under the following headings:
 - i. Site of lesion (1 mark)
 - ii. Cause (1mark)
 - iii. Position of the upper limb (1mark)
 - iv. Motor loss (3marks)
 - v. Sensory loss (1mark)
- 7. Describe the venous drainage of the lower limb under the following headings:
 - i. Superficial, perforating and deep veins (4 marks)
 - ii. Factors that help in venous return (4 marks)
 - iii. Applied anatomy (2 marks)
- 8. Write on maxillary artery and its branches. (10 Marks)
- 9. Write short essays on all the following
 - a. Anatomical basis of clinical features of complete spinal transection at T₁₂ (10 Marks)
 - b. Relations of the Lateral ventricle of the brain (10 Marks)

OR

- c. Applied Anatomy of the visual pathway(10 Marks)
- Features of transverse section of the midbrain at level of superior colliculus (10 Marks)
- 10. a. Describe the anatomy of the diaphragm stating its clinical correlates (5 Marks)
 - b. Describe the mediastinum (5 Marks)
- 11. Describe the gross Anatomy of the abdominal aorta (10 Marks)
- 12. Discuss any one of the following
 - a. Anatomic lobes of the prostate gland. Add a short note on the applied anatomy of the organ. (10Marks)

OR

b. Female urogenital triangle. (10 Marks)

COLLEGE OF HEALTH SCIENCES FACULTY OF BASIC MEDICAL SCIENCES DEPARTMENT OF ANATOMY

FIRST PROFESSIONAL MBBS (RESIT) EXAMINATION 2020/2021SESSION 10/1/2022 INSTRUCTIONS: ANSWER ALL QUESTIONS. PAPER II (ESSAY) TIME: 3 HOURS ANSWER QUESTIONS AS GROUPED PER BOOKLET: A=1; B=2, 3 and 4; C=5; D=6, 7 and 8; E=9 & F=10, 11 and 12

- 1. a) Differentiate a pluripotent and a totipotent cell (2marks)
 - b) Explain, adding relevant diagrams, the processes involved in

Gastrulation (8 marks)

- 2. Describe the contribution of the Neural Crest Cells to the development of any two of the following systems (10 Marks)
 - i. Endocrine System
 - ii. Nervous System
 - iii. Connective Tissues
 - iv. Cardiovascular system
- 3. Discuss the functions of the following cells: (10 marks)
 - a. chondrocytes
 - b. osteoclasts
 - c. osteoblasts
- 4. a) Write an essay on degeneration and regeneration of neurons (5 marks)
 - b) Felix Denzel complained of inability to work properly with his right hand. He usually sways to the right side while walking. He could not do rapid pronation and supination of his right forearm. Magnetic resonance imaging showed a tumor in his right lobe of the cerebellum.

 Succinctly write on the histology of the part of the brain affected, highlighting the layers in it (5 marks)
- A 19-year-old boy was rushed to a surgical emergency unit on account of persistent, purposeless, painful, penile erection.
 - a) The persistent penile turgidity is called what? (1 Mark)
 - b) Outline the molecular basis of this genetic disorder. (3 Marks)

- c) What is your diagnosis? (1 Mark)
- d) State the pattern of inheritance (1 Mark)
- e) Using Punnett's square only, show how it can be inherited (4 Marks)
- 6. a. Using a diagram, what is Erb's point? (3 marks)
 - b. Describe Erb's paralysis under the following headings:
 - Site of lesion (1 mark)
 - ii. Cause (1mark)
 - iii. Position of the upper limb (1mark) iv.
 - Motor loss (3marks)
 - Sensory loss (1mark) V.
- 7. Describe the venous drainage of the lower limb under the following headings:
 - Superficial, perforating and deep veins (4 marks) ii.
 - Factors that help in venous return (4 marks) iii.
 - Applied anatomy (2 marks)
- 8. Write on maxillary artery and its branches. (10 Marks)
- 9. Write short essays on all the following
 - a. Anatomical basis of clinical features of complete spinal transection at T₁₂ (10 Marks)
 - b. Relations of the Lateral ventricle of the brain (10 Marks)
 - c. Applied Anatomy of the visual pathway(10 Marks)
 - d. Features of transverse section of the midbrain at level of superior colliculus (10
- 10. a. Describe the anatomy of the diaphragm stating its clinical correlates (5 Marks) b. Describe the mediastinum (5 Marks)
- 11. Describe the gross Anatomy of the abdominal aorta (10 Marks)
- 12. Discuss any one of the following
 - a. Anatomic lobes of the prostate gland. Add a short note on the applied anatomy of the organ. (10Marks)

OR

b. Female urogenital triangle. (10 Marks)

BOWEN UNIVERSITY, IWO COLLEGE OF HEALTH SCIENCES FACULTY OF BASIC MEDICAL SCIENCES DEPARTMENT OF ANATOMY

M.B., B.S. 1st Professional Examination (Resit) 2018/19 ACADEMIC SESSION

PAPER II ANATOMY

TIME ALLOWED: 3 HRS DATE: Monday, 28th January, 2018 INSTRUCTIONS: Answer ALL questions in separate answer sheets. Well labeled diagrams (if and when required) will enhance your marks. Submit all examination materials at the Invigilators' Desk.

1. Write an essay on embryologic events that take place the week before a pregnant woman misses her period to begin to have suspicion of being pregnant

2. Briefly describe (5 Marks) Typmpanic membrane

(5 Marks) Infratemproral fossa

(10 Marks) 3. Describe the concept of multifactorial inheritance

4. With a diagram, describe the neuroanatomy of the auditory pathway (15 Marks)

(10 Marks) 5. Describe the gross and clinical anatomy of the carpal tunnel

6. Describe the generalised histology of the gastrointestinal tract (7 Marks) (3 Marks) b. Add a note on Auerbach's plexus

7. Highlight bronchopulmonary segments and list its clinical correlates (10 Marks)

8. A C-section is scheduled for a 16 year old mother at 37 weeks. Prenatal care was not sought until 32 weeks gestation. Mother did not take any vitamins or folate supplements prior to that time. Initial prenatal lab studies were significant for an elevated alpha fetoprotein. A prenatal ultrasound done at 34 weeks, no hydrocephalus was noted at that time. A neurosurgeon was consulted. A C-section is scheduled to deliver the infant as nontraumatically as possible with the availability of the neurosurgeon close by. At delivery, the infant has a translucent membrane sac overlying the mid-lumbar region. It is leaking xanthochromic fluid. Upper extremity movement is noted to be good, but lower extremity movement is not as vigorous.

 a. What is the condition called? b. Discuss in details the formation of the neural tube c. Clinical correlates d. Derivatives of the neural crest cells 	(2 marks) (4 marks) (2 marks) (2 marks)
9. In a tabular form, write on the types and distribution of epithe	lial tissue (10 Marks)
10. Describe the sciatic nerve	(10 marks)

BOWEN UNIVERSITY, IWO COLLEGE OF HEALTH SCIENCES DEPARTMENT OF ANATOMY

M.B., B.S. (1st Professional Examination) 2019/20 ACADEMIC SESSION

PAPER II ANATOMY

DATE: Wednesday , 27th NOVEMBER, 2019 1PM TIME ALLOWED: 3 HRS INSTRUCTIONS: Answer ALL questions in separate answer sheets. Well labeled diagrams when required will enhance your marks. Submit all examination materials at the Invigilators' Desk.

1.	Write an essay on dorsal thalamus and its importance	(10 Marks)
2.	a. Define chromosomal aberration	(2 Marks)
36.7	b. List the types of chromosomal aberrations	(8 Marks)
3.	Discuss the development of the face	(10 Marks)
4.	Write an essay on the anatomy of the uterus under the following	
**	a. Ligaments	(2.5 Marks)
	b. Relations	(2.5 Marks)
	c. Venous drainage	(5 Marks)
	d. Add a short note on pudendal nerve block	(5 Marks)
	Describe the origin, parts, course and branches of the artery located in the axilla	(10 marks)
6.	Describe the boundaries of the orbit	(5 marks)
	 a. List the contents of the orbit b. Enumerate the branches of the external carotid artery 	(10 marks)
7.	Loliyah, a newborn has tetralogy of fallot.	(2 Marks)
	a. Name the four cardiac associated abnormalities	(8 Marks)
	b. Describe the partitioning of the atrium	(0 1.1111)
8.	Describe the anatomy of the hip joint under the following headings	(2 Marks)
	i. Joint capsule	(2 Marks)
	ii. Extracapsular and intracapsular ligaments	(2 Marks)
	iii. Innervations	(2 Marks)
	iv. Bursae	(2 Marks).
	 b. Add a note on the genitofemoral nerve 	(2 marks).
9	a. Define epithelium (1 Marks)	(3 Marks)
	b. List 6 functions of epithelium	(6 Marks
	c. Classify epithelial tissue with examples	(O Marks
1	Describe the respiratory epithelium 10 Marks	(5 Marks)
1	1. a. List sequentially 10 events that happen during the 1st week	(5 Marks)
	 Define "assisted reproductive technology procedure 	(2.5 Marks)
	c. List the natural consequences of fertilization	(2.5 Marks)
1	2. A serious condition that may lead to respiratory failure occurs	
	when there is a bilateral damage of the phrenic nerves.	(2.2.4.1
	a. Name the condition	(2 Marks
	b. Write a detailed gross anatomy of the structure implicated	(8 Marks)

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BOWEN UNIVERSITY, IWO COLLEGE OF HEALTH SCIENCES

DEPARTMENT OF ANATOMY

1" PROFESSIONAL MBBS EXAMINATION MARCH, 2021

Paper II (Essay)

Time allowed: 3 Hours

Instruction: Answer ALL Questions

- 1. With aid of diagrams explain the structure-function concepts of the liver as an
- a. Exocrine organ (3 Marks)
- b. Endocrine organ (3 Marks)
- c. Okygen metabolizing organ (4 Marks)
- 2. a. Describe the distribution of the central branches of the circle of Willis (10 Marks)
- b. Explain the anatomical bases of features seen in
 - Complete spinal cord transection (2.5 Marks)
 - Brown-Sequard syndrome (2.5 Marks)
 - iii. Tabes dorsalis (2.5 Marks)
 - iv, Anterior cord syndrome (2.5 Marks)
- 3. Briefly describe the anatomy of the TRACHEA in relation to its:
 - a. Course (2 Marks)
 - b. Relations (3 Marks)
 - c. Blood supply (2 Marks)
 - d. Applied anatomy (3 Marks)
- Discuss, the development of the respiratory system (10 marks)
- Write an essay on gene therapy. (10mks)
- 6. Describe the lymphatic drainage of the lower limb (10 marks)
- I. State 2 injuries each of the upper and lower trunks of the brachial plexus (5 marks)
 II. Name the SITS muscles and their function (3 marks)
 III. Mention the nerve supply to each (2 marks)
- Write a detailed essay on the processes involved in the 1st week of embryonic development (10 Marks)
- Kelechi a habitual gum chewer, developed jaw pain with sore jaw muscles.
 Radiographic examination shows the condyle of mandible slipped out of the glenoid fossa of temporal bone
 - Highlight the gross anatomy of the affected joint under these headings; articular surface, articular capsule, ligaments, movement, neurovasculature. (10Marks)
- i. A patient underwent a liver biopsy procedure, highlight how you will carry out tissue preparation and tissue processing of the biopsied tissue. (5 marks)
 ii. Outline the histology of blood-urine barrier and its clinical importance. (5 marks)
- 11. Using diagram, describe the regions of the anterior abdominal wall (3 Marks)
 - a. List the structures in the hypogastrium (4Marks)
 - b. Mention two (2) surgical incisions of the anterior abdominal wall (2 Marks)
 - c. Write on the gross anatomy of the Stomach (5 Marks)
- 12. a. Write on the gross anatomy of the uterus (4 Marks)
 - b. Describe pudendal nerve block (2 Marks).