Total Time 3.5 hours Total Marks: 100

Class: XI

C. micturition

MODEL PAPER EXAMINATION 2025

ime Allowed: 20 minutes		SUBJECT: ANATOMY &		
1: ote: /	Attempt ALL questions from	SECTION "A this section. Each question can		Marks: 1 NE mark.
		waste products from the blood and		
1.	A. Urinary system	vaste products from the blood and		ris water and electroryte barance:
	C. digestive system			respiratory system
2.	-	s closest to the brain's surface?	D. 1	espiratory system
۷.	A. Hinge joint	s closest to the brain's surface:	RI	Ball and Socket joint
	C. Pivot joint			Condyloid joint
3.	If a patient is lying on their ba	ck this position is known as:	D. (condytoid joint
٥.	A. Prone	ek, tilis position is known as.	В	Lateral
	C. Supine			Medial
4.	_	marily associated with the liver a		
	A. Epigastric region	many associated with the niver a	_	Right Hypochondriac region
	C. Umbilical region			Left hypochondriac region
5.	_	s as a selective barrier, regulating		
٠.	A. Nucleus	s as a sereet, e same, regulating	_	Cytoplasm
	C. Cell membrane			Mitochondria
6.	The pelvic cavity primarily co	ntains which organs?		
	A. Heart and lungs	2	B.	Reproductive organs and bladder
	C. Brain and spinal con	[.] d	D.	
7.	•		escribes	the passage of blood originating in the left leg?
		$rium \rightarrow right atrium \rightarrow lungs$		Vena cava \rightarrow right atrium \rightarrow left atrium \rightarrow lungs
		right ventricle → aorta		\rightarrow right ventricle \rightarrow left ventricle \rightarrow aorta
	C. Vena cava \rightarrow left at	rium → left ventricle → lungs	D.	Vena cava \rightarrow right atrium \rightarrow right ventricle \rightarrow
	\rightarrow right atrium \rightarrow r	ight ventricle → aorta		lungs \rightarrow left atrium \rightarrow left ventricle \rightarrow aorta
8.	The heart is enclosed in a prot	ective sac called the:		
	A. Pericardium		B.	Pleura
	C. Peritoneum		D.	Myocardium
9.	Which enzyme in saliva break	s down starches into sugars?		
	A. pepsin		B.	lipase
	C. amylase			trypsin
10.	Which hormone is produced b	y the pancreas to regulate blood s	_	
				Thyroxin
	C. Cortisol			Adrenaline
11.	-	aced by the pineal gland, is associ		
	A. Sleep-wake cycles a			Blood sugar regulation
	C. Immune system fun			Bone development
12.	-	ced by the and stored in		
	A. Posterior pituitary;			Adrenal cortex; Adrenal medulla
10	C. Hypothalamus; Neu			Adenohypophysis; Kidneys
13.		ninal vesicle in the male reproduc	-	
	A. Sperm storage			Secretion of alkaline fluid
1.4	C. Sperm maturation			Production of testosterone
14.	A. Connect muscle to b	nts in the musculoskeletal system		Engilitate inint movement
				Facilitate joint movement Store minerals
15	C. Connect bone to bot	nsible for involuntary movements		
13.	A. Smooth muscle	ilsible for involuntary movements		Cardiac muscle
	C. Skeletal muscle			Ligaments
16		wement in multiple planes includ		on, extension, abduction, and adduction?
10.	A. Ball and Socket joir		_	Hinge joint
	C. Condyloid joint	u		Pivot joint
17		imination of concentrated urine from		-
-/-	A. absorption	12 Convenience willou		Selective reabsorption
				.

D. glomerular filtration

Total Time 3.5 hours Total Marks: 100

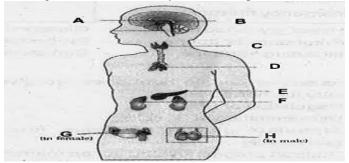
Time Allowed: 30 minutes

Practical Based Assessment (PBA)

(Marks: 15)

18. The diagram of the human body shows some parts of the endocrine system. Label the given parts.

Marks (4)



19. Identify the position given below:

Marks (1)



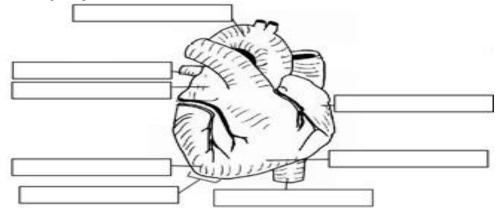
20. Answer the given questions:

Marks (2)

- a) Which is the largest and the main artery of the circulatory system?
- b) Name the blood vessels that carry blood from upper and lower parts of the body?

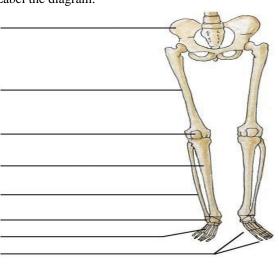
21. Label the given parts:

Marks (4)



22. Label the diagram.

Marks (4)



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Class: XI

Time: 2 hours 40 minutes



MODEL PAPER EXAMINATION 2025 SUBJECT: ANATOMY & MICROTECHNIQUES

SECTION "B" AND SECTION "C"

Q2: SECTION "B" SHORT ANSWER QUESTIONS 36 Marks

Note: Answer any $\underline{\textbf{NINE}}$ questions from this section. All questions carry equal marks.

- (i) Give a comparison of types of muscle.
- (ii) Enlist hormones of anterior pituitary gland.
- (iii) How does the exchange of gases occur at the alveolar level?
- (iv) List down the main nine abdominal regions along with their organs
- (v) Differentiate between smooth & cardiac muscles.
- (vi) Write down the difference between meiosis & mitosis.
- (vii) Write down the steps of paraffin wax embedding.
- (viii) Differentiate between light and electron microscopy.
- (ix) Enlist the different types of stains used for bone tissues.
- (x) Why are secretions of the adrenal cortex called corticosteroids?
- (xi) Differentiate between the following:
 - a. Insulin & Glucagon
 - b. Central Nervous system & Peripheral Nervous system

SECTION "C" DETAILED ANSWER QUESTIONS

32 Marks

Total Time 3.5 hours

Total Marks 68

Total Marks: 100

Note: Answer any <u>TWO</u> questions from this section. All questions carry equal marks.

- Q3: Describe the structure and function of a neuron.
- Q4: Explain pituitary gland, its lobes and hormones in details.
- Q5: Explain the skeletal system in detail with diagram.

END OF PAPER