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RAN-2006000101010001

1st M.B.B.S Examination January - 2023

Human Anatomy - Paper 1 (Set - 3)

	ne: 3					[Total M	larks: 100
સૂચ (1)	_		ructions • 🖝 નિશાનીવાળી વિગતો ઉત્તરવહી પર ર	ત્રવશ્ય લખ	al.	Seat No.:	
	Fill up strictly the details of r signs on your answer book Name of the Examination:						
	•	1st M	.B.B.S				
			he Subject :	-(1)			
	•	Huma	in Anatomy - Paper 1 (Set - 3)				
	Subj	ect Co	de No.: 2006000101010001			Student's Sig	nature
(2)	Wri	te ea	ch section in separate answer l	ook.			
(3)			n A, all MCQs are compulsor		one answer	will be accepted	d, no
	nega	ative	marking & must be submitte	d withi	n first 30 r	minutes.	,
(4)	Sect	ion A	acarry 20 marks and Section I	3 & C c	arry 40 ma	rks each.	
(5)	Draw labelled diagrams wherever necessary.						
(6)	Writ	te to	the point.				
			SECTION	VA - M	CQs	1×20 =	= 20 marks
	1.	Infe	erior thyroid artery is branch of	of			
		a)	External carotid artery	'b)	Thyrocer	vical trunk	
		c)	Costocervical trunk	d)	Deep cer	vical artery	
	2.	Wh	ich of following is motor nerv	e to sca		-	
	4.	a)	Lesser occipital nerve	b)		ccipital nerve	
		c)	Auriculo-temporal neve	d)	Posterior	auricular nerve	
		,		,			
	3.		ich of following venous sinus		Inferior s	agers of dura m	atter?
		'a)	Superior sagittal	b)	Cavernou		
		c)	Occipital	d)			
	4.	Cor	mbined actions of which musc	les resu	ılt in intors	ion of eyeball?	
		°a)	Superior rectus and superior	r obliqu	ie		52
		b)	Inferior rectus and inferior	oblique			
		c)	Superior rectus and inferior	oblique	e		
		d)	Inferior rectus and superior	oblique	:		

13.

14.

15.

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	5	M	rtebral level of laryngotracheal ju	ınctio	on is		
	Э.	a)	C6	b)			
		c)	TI	d)	C5		
	6.	Ax a) c)	illa contains all EXCEPT Axillary tail Trunks of brachial plexus	b) d)	Intercostobrachial nerve Long thoracic nerve		
	7.	Ac	tion of acromial fibres of deltoid		noulder joint is		
		a)	Medial rotation	b)	Lateral rotation		
		c)	Adduction	ď)	None of above		
	8.	All	arise from common extensor ori	gin o	f humerus EXCEPT		
		a)	Extensor carpi radialis brevis		Extensor digiti minimi		
		c)	Extensor carpi radialis longus	d)	Extensor carpi ulnaris		
9).	Inco	orrect about ERB's paralysis is				
		a)	Arm is adducted	b)	Arm is medially rotated		
		c)	Forearm is extended	(d)	Forearm is supinated		
10		Ulna	ar neve innervates				
	ě	a)"	Medial half of flexor digitorum	prof	undus		
		b)	Lateral half of flexor digitorum	prof	undus		
		2)	Medial half of flexor digitorum	sune	erficialis		
		1)	Lateral half of flexor digitorum	supe	erficialis		
11.	· F	ain	& thermal sensations from forel	nead	area is projected in		
	a	,	Principal sensory nucleus of tri	gemi	nal nerve		
)°	Spinal nucleus of trigeminal ne	rve			
	C		Mesencephalic nucleus of triger	mina	l nerve		
	d)	Nucleus ambiguus				
12.	F		about thalamic nuclei is				
	a))	Anterior nucleus is part of limb	ic sys	stem		
	b))	Medial nucleus is connected with	th pre	efrontal cortex		
c) Ventral posterior medial nucleus receives spinal lemniscus							
	d)		Ventral anterior nucleus is conne	ected	with motor & premotor cortex		
13.	Al		ss through inferior cerebellar pe				
	a)		Vestibulocerebellar tract)	Cerebello-vestibular tract		
	c)	1	Anterior spino-cerebellar tract of	1)	Posterior spino-cerebellar tract		
4.	wi	hich	of following is functional com	pone	nt of trigeminal nerve?		
7.	a)	(General somatic afferent b) Spo	ecial	somatic afferent		
	c)	C	General visceral efferent d) Son	matic	efferent		
			of following is receptor in mus				
		nich	10tor end plate b) 1	Muscle spindle		
	a) •	N	leurotransmitter d		Motor unit		
	(1)	-	Curottano			-	

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	a) Articular cartilage c) Glenoid labrum Somites develop from a) Paraxial mesoderm c) Lateral plate mesoderm Nerve of second pharyngeal arch is a) Facial c) Internal laryngeal Type of joint between epiphysis and call are examples of portal circulation a) Hepatic circulation c) Pulmonary circulation	b) Intervertebral disc d) Elastic cartilage b) Intermediate mesoderm d) Endoderm b) Recurrent laryngeal d) Glossopharyngeal diaphysis is b) Primary cartilaginous d) Plane synovial
	SECTION B	Marks 40
(1)	35 years old female is injured in a veh of shaft of humerus. Clinical examinates sensations in area of anatomical snuff of arm and forearm and wrist drop. (A) Enumerate neuro-vascular struction.	ticular accident leading to fracture tion revealed loss of cutaneous box, lack of sweating on the back (1+2+2+3 marks)

- (2) 40 years old male patient brought to hospital with complains of high grade fever, severe pain in eye & forehead and orbital swelling on right side. He had history of incomplete course of antibiotics given for sepsis of upper lip 1 week ago. Clinical examination revealed periorbital oedema and extraocular muscles palsy on the same side. (2+2+4 marks)
 - (A) What is the most probable diagnosis?
 - (B) Based on clinical features, enumerate the affected nerves.
 - (C) Explain anatomical basis of clinical features.

(B) Describe origin and branches of affected artery.

(C) Describe origin and root value of affected nerve.

(D) Explain anatomical basis of above clinical findings.



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(3) 50 years old male with known case of pituitary tumour gradually develops impaired peripheral vision in outer temporal halves of both visual fields.

(2+6 marks)

- (A) What is probable diagnosis for impaired vision?
- (B) Describe various lesions associated with visual pathway.

Question 3.

(A) Write short notes on ...(ANY TWO)

10 marks

- (1) Serratus anterior muscle
- (2) Median nerve in hand
- (3) Anastomosis around elbow joint

(B) Write short notes on...

10 marks

- (1) Fertilization OR Chorionic villi
- Development of spinal cord OR Development of palate

4 marks

- (C) Write short note on.... (ANY ONE)
 - (1) Fibrous joint (2) Anastomosis
 - SECTION C

Marks 40

16 marks

Question 4 Long questions.... (ANY TWO)

Describe larynx as asked.

- (a) Enumerate intrinsic muscles & describe muscle producing abduction of vocal cords.
- (b) Laryngeal cavity
- (c) Motor & sensory innervations
- Describe submandibular gland under following heads.
 - (a) External features & relations
 - (b) Neuro-vascular supply
 - (c) Submandibular duct
- (3) Describe pterygopalatine fossa under following heads.
 - (a) Boundaries and communications
 - (b) List of contents
 - (c) Connections and branches of pterygopalatine ganglion



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Question 5

(A)	Write	short	notes	on	(ANY	TWO
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(1) Posterior spino-cerebellar tract

10 marks

- (2) Fourth ventricle
- (3) Circle of Willis

(B) Write short notes on....

10 marks

- (1) Histology of spleen OR Histology of hyaline cartilage
- (2) Histology of thyroid gland OR Histology of cornea

(C) Write short note on....(ANY ONE)

4 marks

- (1) Saddle joints
- (2) Implantation
- (3) Histology of thymus