

Anatomy

2011		7 y
	Paper · I	The state of the s
Attempt all questions	unswer so	Full Marks - 50 for each group ams wherever necessary. Il marks.
The figures in the	Fraw suitable diagr	or each group
	yul indicate	will the contract
(OPD) with a com-	plaint of	e Out Patient Department at the midline of anterior ve scar. Swelling
abdominal wall	Over a swelling	at the midling of
diagnosed to be i	ncisional l	at the midline of anterior ve scar. Swelling was hrough rectus about 1
	nernia t	ve scar. Swelling was hrough rectus sheath.
i) Define the sl	neath ii) Ci-	s formations at different
levels. iii) What	are the contents	s formations at different f rectus sheath? Why is
median incision	not preferred over	rectus sheath? Why is
DI FUNDWING AT SINE	O 1 . 1 .	
movements of the	ie leg. What is the	person lost his adductor ne nerve supplying the
the following !	of muscles of leg? I	ne nerve supplying the Describe the nerve under
the following head		31/15
i) Origin. Distribution.	ii) Bran	ches. iii)
Distribution.		en e
inswer any two of the	Group - B	
a) A bus conductor	having prominent	the fifth of the control of
standing position	What are the sur	veins in his legs during perficial veins present in
the leg? What are	the origin termin	nation and tributaries of
short saphenous	vein? What is vario	osity of leg veins? 2+4+1
b) Name the false li	gaments of the liv	ver. State within which
mesogastrium, de	evelopment of liver	r takes place and what
are the remnants	of it? Write from	which part of the gut,
liver bud develops	?	4+1+1+1
c) Name the part	s of the large	intestine with their
corresponding len	gths in the adults	Describe the structure
of the large gut w	ith diagram.	$2^{1}/_{2} + 4^{1}/_{2}$
	Group-C	4x3
Write notes on <i>any fou</i> a) Down's syndror	r of the lonowing.	nent cl Epiphysis.
d) Left Renal Vein	ne. b) Deltoid figur	nen.
d) Left Renai Vein	Group - D	ender dienste bestellt.
Valoin anotomically f	Group - D	ments 4x3
b) Urinary fietula at	the level of umbilio	cus in a new born baby. the sites of lung abscess
	ment h () Illie al	CATO Della d
d) Double Bar body i	n Klineletter 2 27.	
	The state of the s	and the state of the state of the
		Land of the same



2011	Paper - II	Full Marks - 50
	- Leave	each group
The foures in th	ie maraut amacas	narks.
The jiguies at a	Group - A	
1 a) A child came to	1-1-4	of injury to the externa
ear On examina	OPD with a complaint of ation a perforation was	found in the tympanic
membrane Di	ation a perforation was scuss about the gro	ss anatomy, arteria
: eupply and ner	ve supply of the Tymp	anic membrane - and 3+1+2+3+1+2
the External au	ditory canal.	3+1+2+3+1+2
		. 1.1
W A person give	es history of inability	y to close his moun
immediately af	ter yawning. What is	the anatomical basis
behind it? Des	cribe the muscles and	d ligaments related to
the anatomical	site affected.	2434
The anatomics	Group - B	
2. Answer any two of	Calle following :-	
		long the margin of th
tongue which	was diagnosed as car	cinoma of the tongu
enlarged? Disc	cuss briefly the lymp	hatic drainage of in
tongue		24
b) A patient with	increased intracranial	tension presents with
medial squint	/ strabismus. Explain	the reason for media
squint Give a	brief account of ana	tomy of the structur
involved.		. 24:
	t presents with repeat	ted vomiting and remi
on examination	n which was diagnor	sed as Diaphraghiau
Hernia, Expla	in the condition from	m your knowledge of
anatomy. Give	the origin, insertion	& nerve supply of the
diaphragm.		24
	Group - C	
2 Wette short notes	form of the fall	owing:- 4x
a) Oblique sint	on any jour of the long is, b) Thalamic Nucle	i. c) Inlet of the Laryin
d) Developmen	t of the Soft Palate. (e)	Spine of the Sphenoic
Weste belef explana	tory notes on the follo	wing statements using
I-mounted de of A	natomy / Empryology	
The Downs	bewolde are interior if	I IMPSILIDIL.
a) Superior radio	n bodies is commoner	to the right bronchus
///	AT MURAY TIGOGGIG	
	- I - 100 second Action I	pirth to a baby who
examined to be	c single palmar (simi	an) crease in the pala
a characteristi	netic cause of the eve	ent.
Explain the ge	neue cause of the eve	
	1 2	



Physiology

O11 Paper - I Full Marks - 50
Use separate answer script for each group Attempt all questions. Draw suitable diagrams wherever necessary. The figures in the margin indicate full marks. Group - A a) What is hemostasis? Name different coagulation factors required for coagulation and draw, a brief outline of the events of coagulation. Write in short the role of platelets in hemostasis. Justify the role of Aspirin for the prevention of stroke. Or b) What is cardiac cycle? Describe with suitable diagram the pressure and volume changes in the left ventricle in different phases of cardiac cycle. Enumerate differences between 1st and 2nd heart sound. 2+6+4 Group - B
Answer any two of the following:— a) Discuss the role of ATP? in the skeletal muscle contraction and relaxation. What is rigor mortis? b) What is Marey's Law? What is its physiological basis? Name two conditions where it is not obeyed.
c) What is cardiac output? Describe one method for estimation of cardiac output, Group - C Write short notes on any four of the following: a) CVS adjustments during exercise b) GLUT c) Asphyxia d) 'Bile Salt, e) Standard leads in, ECG, Group - D Give the physiological explanation of the following: a) In anaemic hypoxia Oxygen therapy is not of much help,
 b) Increase in Pulmonary Ventilation continues even after exercise is over, c) Brief period of straining causes tachycardia and rise in peripheral resistance, d) In haemolytic jaundice urine is not high coloured.



2011	Paper - II	Full Marks - 5
Use sep	parate answer script for e	A 9 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
- un question	S. Draw suitable digaram	cuherener neces
The Jigures in t	the margin indicate full m	arks.
The state of the s	Group - A	ZCSSW
a) Define synaps	e. What is synantic note	ntial; give ionic has
-or acactobilies	It of it with proper diagra	m and labeling West
about importa	nt properties of synapse.	1+5+
	or .	1200
b) Name various l	ayers of adrenal cortex a	nd various hormone
secreted by the	hem. Write the effects	of glucocorticoides
Describe cush	ing's syndrome.	2+7+3
e de la companya de la seguiro. A como de la companya de la company	Group - B	in the later After
inswer any two of t	the following:	
a) Describe men	strual cycle with refe	rence to hormona
changes.		Torrecto Hormona
b) Define polyuri	ia. What are the cause	s of polyuria? Why
polyuria occur	s in diabetes insipidus?	2+2+3
5) What is muscle	e tone? How is it regulat	ted? 2+5
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Group - C	Marie Car. 240
Vrite short notes or	any four of the following	g: 4x3
a) Paradoxical sle	ep.	5 4x
b) Renal clearence		n water a state
c) Acromegaly.	and the second of the second of	01 (1 (1) - R1(2) (1) P
d) Renig.		Printingly and the se
e) a-wave in EEG.	beenty excessed to be and a	re-uMarada H
14. 15	bosedo son en itamaio	estrictions of t
Self Control of the C	* * * * * * * * * * * * * * * * * * *	the state of magnetic and an experience
the physiologi	Group - D	
Give the physiologic	cal explanation of the fol	lowing: 4x
a) Dissociated at	naesthesia is seen in sy	ringomyelia.
b) Sterility is,	more common in me	n working in he
surroundings,		
b) Steroid therap	y is always withdrawn gr	radually.
d) in Argyl Rober	tson pupil, light reflex is	lost.



is increased in hemolytic jaundice 2011 Paper - I Full Marks. Use separate answer script for each group Attempt all questions. Draw suitable diagrams wherever necessary The figures in the margin indicate full marks; Group - A 1 a) What are isotopes? Discuss the role of radioisotopes as biochemical tracers, diagnostic and therapeutic tools. What is PET scan? 1+8+3 b) Describe the pepide bond. What are the different force that stabilize the protein structure at different levels of organization give an example to explain that 'primary structure determines the functional states of proteins'. 4+5+3 Group - B Answer any two of the following: 1. a) Write the synthesis, transport and degradation of catecholamines. b) Describe the importance of enzyme active site in bringing about the enzymatic catalysis. c) Describe the mitochondrial electron transport chain. How the inhibitors of electron transport chain differ from the uncouplers of oxidative phosphorylation? Group - C Write short notes on any four of the following:a) Secondary active transport. b) t-RNA c) Glycosylated Haemoglobin. d) Prions. e) Isoenzymes. Group - D Explain the following statements: a) Methotrexate is used for epticancer therapy. b) Glucose and fructose form similar osazone crystals. c) 2, 3 BPG helps in the delivery of O, in the tissues. d) RNA can act as an enzyme.

Biochemistry



Paper - II 2011 Use separate answer script for each group Full Marks - 50 Attempt all questions. Draw suitable diagrams wherever necessary. The figures in the margin indicate full marks; Group - A 1. (a) Describe the stage of initiation of translation process with the help of a diagram. State the mechanism of action of following antibiotics in the inhibition of translation, (i) Streptomycin (ii) erythromycin (iii) Chloramphenicol.6+6 (b) Write down the different typt of DNA damage. Explain the mechanism of following types of DNA repair in E.coli. (i) mismatch DNA repair (ii) Base excision repair (iii) Nucleotide excision repair. 6+(3x2)Group - B 2. Answer any two of the following :-(a) Describe the multienzyme complex and various reactions involved in the oxidation of pyruvate to acetyl coenzyme A. (b) Illustrate the formation and metabolism of HDL. What is reverse cholesterol transport? How does this process lower the levels of LDL in plasma? (c) State the process of absorption of Vitamin B12. Mention of role of Vitamin B, in the cell metabolism. Group - C 3. Write short notes on any four of the following: a) Raport Leubering cycle b) RELF (Restriction Fragment Length Polymorphism) c) G-protein. d) Folate Trap. e) Monoclonal Antibody. Group - D 4. Explain the following statements:a) Regulation of messenger RNA stability provides a control mechanism of gene expression. b) Phototherapy (exposure to blue light) helps in the treatment of neonatal "physiological jaundice".

c) Brown adipose tissue pormotes thermogenesis.

rocyte hemolysis, FirstRanker.co

d Impairment of Pentose phosphate pathway leads to eryth-