

Anatomy 241 Paper - I 2012 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 1. a) A young married lady with a history of missed period, suddenly collapsed with sharp lower abdominal pain and was diagnosed having ruptured tubal pregnancy. What is the commonest site of tubal pregnancy and its fate. Mention the parts of this tube, blood supply, histological structure and development. 2+3+2+3+2 or b) What are the muscles exposed after cutting Gluteus maximus? Name the nerves supplying these muscles. What are the actions of these muscles on Hip joint. 3+4+5 Group - B 2. Answer any two of the following: a) Why ischiorectal abscess is very painful when abscess is superficial. "Write boundary and content of fossa. b) Mention the main structural characteristics of synovial joint. Classify synovial joint with example of each type 3+4 c) Describe the histology of classical hepatic lobule. What is a liver acinus? Group - C 4 x3 3. Write notes on any four of its following:a) Quadrangular and triangular space b) Epiploic toramen c) Umbilical Cord d) Epiphyseal cartilage e) Mackenrodts ligament. Group - D 4x3 4. Explain the following statement: a) Injury to radial nerve in cubital fossa will not cause wrist b) Tracheo oesophageal fistula. c) Monozygotic twins are identical whereas dizygotic twins are not identical. d) Injury to long thoracic nerve causes winging of scapula.



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Attempt all questions. Draw suitable diagrams where The figures in the margin indicate full marks.	ver necessan
The figures in the margin indicate full marks.	
Group-A	
1. a) A man suffering from hypertension bleeds fro	m Little's are
of nose. Give an account of the formation, as	rterial supply
nerve supply & lining epithelium of nasal s	eptum with
note on Little's area.	4+2+2+2+
the contract of the contract o	
b) Following thyroidectomy a patient may develo	m kaamaa
of voice. Explain the statemet. Give a brie	p noarsenes
intrinsic muscles of the later to the	er account o
intrinsic muscles of the larynx and the	ir action o
ramagiottidis.2+10	A A
Group - B	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2. Answer any two of the following:	4+2+
a) Write a note on Internal Capsule of brain w	with its bloom
~~PP-y- what is neminledia?	
b) Give an account of usual pattern of coronary are	de tractica lista a reservant and a
heart. What is coronary dominance?	
(c) Describe the development of tongue. Correla	6+1
supply of tongue with its development.	
	4+3
Group - C	28 Table 1
3. Write short notes on any four of the following:— a) Ciliary gaglion	4x2
b) let intersected	14. 1. 1.
b) 1st intercostal nerve	
c) Lacrimal apparatus.	and an are placed
d) Tympanic membrane	44
e) Ansa cervicalis	to be you have
Group-D	-1
Explain the following statement:	*, *, *, *, *, *, *, *, *, *, *, *, *, *
a) Macular vision is generally spared in lesion	4x3
cerebral artery.	of posterior
b) Optic nerve cannot regenerate after injury.	4.
c) Type of respiration in children is abdominal,	whereas it is
dioraco-abdominai in adult.	
d) Barrbody is present in klinefelter's syndrome.	
syndrome,	
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	100



Physiology

2012			
Use sengrete Paper - I Full Mark	s - 50		
	ssary.		
garaman garaman jun marks;	3		
1. a) Discuss the role of Neutrophile	in the		
1. a) Discuss the role of Neutrophils in defence. What is in immunity?	nnate		
The House of the Paris of the P	8+4		
b) Describe in brief the regulation of Pland Para			
O TO THE POLICION OF THE PROPERTY OF THE PROPE	iat is		
	+2+2		
Grown D			
2. Answer any two of the following:	2.		
a) Write about the different types of intestinal movements what is adynamic ileus?	ents.		
b) Write the molecular basis of skeletal muscle contract	~ ~		
Write a note on Neuromuscular blockers.	5		
c) What is hypoxic hypoxia? What are the adaptations that a	4+3		
when a person ascends to an altitude of 12,000 feet.?	ccur		
Group-C	J.		
3. Write short notes on any four of the following:	4X3		
a) E.S.R.			
b) Na+ - K+ ATPase	0 LT		
c) Mucosai barrier of stomach			
d) Rigor mortis	. II-		
o Surfactant.	C 0.4		
Group - D	10 000		
4. Give the physiological Explanation of the following:	4x3		
a) Low plasma protein causes oedema			
b) Vasodilatation occurs in the blood vessels of skeletal mu	iscles		
in severe exercise.			
c) In obstructive jaundice there may be coagulation defect.			
Aspirin in low doses prevents intravascular coagulation	orr.		



2012	Paper - II	Full Marks - 50
Use	separate answer script for ϵ	each group
Attempt all auest	ions. Draw suitable diagram	is wherever necessary
The figures	in the margin indicate full m	rarks;
	Group-A	
. a) Describe th	e nuclei Connections an	d functions of Basa
ganglia. Wi	nat are the features of Pa	rkinsonism and how
can these b	e reduced ?	7+5
b) Describe the	e physiological effects of thy	roid hormones. What
is thyroid s	town?	10+2
is triyroid s	Group - B	
district the second		we have the transport of the season
z.Answer any tu	oo of the following:—	Blood-Testis harrier
a) Describe th	e spermatogenesis. What is	5+2
MARKET TO STATE	40	
b) Describe th	e auditory pathway with su	n deafness and north
will you diff	erentiate between conduction	on deamess and herve
deafness?	5+2	Diana the foother
c) What is gl	omerular filtration rate?	Discuss the factors
influencing	it. What is filtration fraction	on? 1+5+1
	Group - C	4.0
	otes on any four of the follow	ving :— 4x3
a) Contracept		and the state of t
	xcitatory Postsynaptic Poten	ittal).
	quard Syndrome.	- January Commence of the second
d) Accommod		The traffic of the second
e) Foeto - Plac	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	COERTAIN CONTRACT
4 0 mm 19 4 19 32	Group-D	و مسعد المقام الماسية على الماسية
4. Give the p	hysiological explanation	of the following
statement:	resis occurs in Diabetes M	Later to the Control of the Control
a) Osmotic dit	iresis occurs in Diabetes M	lellitus.
b) Protonged C	reast-feeding is helpful in f	amily planning.
demoded	omes meaningless if the a	rcuate fasciculus is
damaged.	and follows matters to	
d) Chrome rei	nal failure patients have ar	naemia.
•	ு அவர்கள்	
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The state of the s	All are a series and a series and	6.75
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the standard of the	The second second	1



Biochemistry

2012	Paper - I	Full Marks - 50
Attempt all questic The figures ti	eparate answer script for ons. Draw suitable diagram in the margin indicate full Group – A fferent types of enzyme	ms wherever necessary. marks;
plain any o	one of them with example inhibition of enzymes Or	le. Justify the meaning
role in mai	pids present in plasma intaining the fludity of p rafts mentioning their	olasma membranes. E
2.Answer	Group - B any two of the following:-	20
(a) Writ latio	te the difference in structure on to myoglobin and haemo	e and oxygen binding in 15. globin.
(b) Desi	cribe the biosynthesis and	degradation of catechola
min (e) Eluc of D	idate the salient features of	DNA structure. Explain Ta
3.Write sh	Group - C nort notes on any four of the	following:
e) Rece	psomes and ribosomal RNA eptor mediated endocytosis abolic acidosis	b) Radioimmunoassay
	Group - D	
a) Lipid	the following statements: ds can act as intracellular s	detail 4st
D) KNA	is alkali labile white DNA	is alkali resistant
c) Colli	agens contain quarter stag	gered triple helical struc-
	ine solution can not rotate t	he plane of plane polarized

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2012	Paper - II	Full Mar
Use se	eparate answer script for	each group
Attempt all question	ns. Draw suitable diagram	ns wherever necessary
The figures in	the margin indicate full r	narks;
	Group – A	The state of the s
1. (a) Describe how	v fructose galactose are m	netabolized in the body
Mention the	disorders associated w	ith their metabolism
		6+6
	Or	,010
(b) Describe the	molecular organizaiton	of fatty acid synthage
complex in	mammalian system. Des	scribe the sequence of
	io-synthesis of palmitate	
(Group - B	· Litarian UTU
2. Answer any two	of the following:	2x7
(a) Describe the	e biosynthesis and catab	olism of heme
(h) Describe the	e 'Lac-operon' model of	dene expression in P
Coli	Lac-operon moder of	gene expression in E.
(c) Describe the	purine salvage pathway	. Explain any disorder
related to th		21.5
	Group - C	
3. Write short note	es on any four of the follo	wing: $-4x3$
a) Restriction 6	endonucleases b) Ferriti	n
	Liver function test	ee Saasalik
e) Lecithin eho	olesterol Acyl Transferas	se 'v
a. d. i	Group - D	
4 Explain the follo	owing statements:	4x3
a) Phosphofruo	ctokinase-I is known as	pacemaker of glycoly-
sis.	, COMMICCO I TO THE COMMITTEE COMMIT	Processing to the second
b) Von Gierke's	s disease is associated	with hyperuricemia.
ol Methotrevat	e is used as anticancer	durg.
d) Ammonia is	toxic to central nervous	s system.
oj Ailillollia is	tome to contain month	- L
		E.

Courtesy – Kunāl Kalamuri, BSMC