	٠,٠		2013 1310Chem [8 2013 (a)	
		Car	and 2013 (Stockers (Sendus) 2013 (2013))
1	À	1	Azra Naheed Medical College, Lahore.	ſ
1		M	Umatellar 2nd Year MBBS 2013 Time: 2 Hours	
			Rollmody Send up Examination Marks: 60	
			Attempt all Questions	
	1.	(a)	Draw electron transport chain, mention its various components. Name the inhibitors of electron	
			transport chain with their sites of actions. 75 - Upon colf)
		(b)	transport chain with their sites of actions. 75 - Upon colf Write a short note on chemiosmotic theory. 77 - 12 Lubrication are moistening Digestive action	5
	2.	(a)	Enumerate pancreatic enzymes and give their functions. Stimulating effect cleansing action (3)	3)
		(b)	Enumerate pancreatic enzymes and give their functions. Enumerate functions of saliva. Profession of peth Esophorgeal odd clearing secretory function Excretory function Regulation of water meters. Name the compounds which can be used for gluconeogenesis, mention the irreversible steps.	2) .
		(0)	Excretory seems function	1_ 1
	-		Name the compounds which can be used for plucone openesis, mention the irreversible steps	,(D0 /
J	ું ફ	ď,	Name the compounds which can be used for gluconeogenesis, mention the irreversible steps of glycolysis & how these are by passed.	ያ (3)
3	逵			[2)
ğ	9	(4)	Give reasons, complicadors and remes, to galeers and of D	
2	3	(a)	Write down the steps of citric cycle with enzymes and factors, also calculate energy produced	
	matcho olism	Ì		(3)
Š		(H)		(Z)
	•	'A		
	_	(a)	Draw urea cycle with enzymes and factors. What is the significance of biosynthesis of urea?	(3)
	5.	(a)		
		(b)	What is pheny! Ketonuria, mention its causes and biological effects?	(2)
			Home, creating, Durin	e.
	6.	{a}	Enumerate specialized compounds formed from glycine. Herne orealine puring Vasodilably inhibit planter eggregation huclestides hippunic a	20
		(6)	Platelet depressor Reduced Gill moteling Platelet depressor Reduced Gill moteling is formed in the body? Gilled thion	Q(2)
		(5)	(Chalic Let) performed them halos	
	-	(-)	Chenocleany choic and Lithochouc are of minestion Name primary and secondary bile acids, mention their sites of synthesis and physiological function	. \
	7-	(a) '	What is enterohepatic circulation of bile acids?	(3)
		70 1000	What is the role of Carnitine in β- oxidation of fatty acids, name the regulatory enzyme of	
		(p)	· I	(2)
			B-oxidation. This Kirase	ريڪي
			[7]	
			PTO	

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SEND UP EXAMIANTION 2015 2ND Year MBBS

Senduf 2015

16	2 Year Wibbs	
	otal marks: 70	
	No. 1. 2 ½ hours 1 2 ½ hours 1 2 ½ hours 1 3 ½ ½ ¼ manifelt 1 3	23
Q I a. b.	Write down the composition and functions of bile. What is the enterohepatic circulation of the bile roids?	
c.	Enumerate pancreatic enzymes and give their functions.	
Q Na. b.	10:4	2) (3) (2)
Q N a. b. c.	No. 3 V Define gluconeogenesis. Name the compounds that can be used for gluconeogenesis.	(2) (3) (2+1)
O N	IU. T	(2)
a. b.	Name the ketone bodies Mention the conditions in Which we will be metabolism of Mention different type of lipoproteins. Write down the composition & metabolism of	(3)
c.	chylomicrons. A projection of fatty acids? How much ATPs are generated What are the alpha, beta and omega oxidation of fatty acids? How much ATPs are generated when one molecule of Palmitic acid is completely oxidized to acetyl S. Co A?	(2+1)
/	<i>h</i>	
Q N a. b. c.	O. 5 What are transamination & deamination? Explain with examples. Mention the causes and metabolic effects of phenyl ketonuria, alkaptonuria, and albinism. What is the significance of urea synthesis in the body? Write down the steps of urea synthesis with enzymes and factors.	(1) (4) (1+2)
O N	Io. 6	(4)
a. b.	How uric acid is formed from purine bases? What is Lesch Nyhan syndrome? Give its reason and complications.	(4) (2)
c.	Lab findings of a 5 year old girl showed orotic aciduria - Locate the metabolic step involved. - Name the concerned enzyme deficiency	(1) (1)

PTO

			•
Q No	.7		Carre
a.		structure of tRNA and label it.	(3)
b.			sidus (3) 🔻
	Evnlain va	arious stages of initiation of replication in eukaryotes	urine da
C.	LAPIGITI VE	arious stages of initiation of replication in eukaryotes. Sources water to absence of ADH	
			DH . (3)
Q No	. 8	What happens in deficiency and, excession	of Inappro
a. /	Name the		OH Secretipas
	secretion	? What is the effect of growth hormone on	ا مرقع ا
b.	Enumera	? te hormones of paterior pituitary. What is the effect of growth hormone on te hormones of paterior pituitary. What is the effect of growth hormone on the hormones of paterior pituitary. What is the effect of growth hormone on the hormones of paterior pituitary. What is the effect of growth hormone on the hormones of paterior pituitary. What is the effect of growth hormone on the hormones of paterior pituitary. What is the effect of growth hormone on the hormones of paterior pituitary. What is the effect of growth hormone on the hormones of paterior pituitary. What is the effect of growth hormone on the hormones of paterior pituitary. What is the effect of growth hormone on the hormones of paterior pituitary. What is the effect of growth hormone on the hormones of paterior pituitary. What is the effect of growth hormone on the hormones of paterior pituitary. What is the effect of growth hormone on the hormones of paterior pituitary. What is the effect of growth hormone on the hormones of paterior pituitary of the hormone of t	senter Birth
	carbohyd	rate, protein and lat metabolism ()	oled (2)
c.	What is th	he mechanism of action of hormones? Explain with example of G-Protein cour	I Asid Concent
	surface re	eceptors (GPCRS), 1 in anc. it is a collection in the sibosoms (ii) Kellosing	
	عمو دن احا	c. blood gluid be close in fac. Plot ien Symmosis of DNA C. gluicose enter interestion of DNA C. gluicose enter interestion of DNA C. gluicose deposition (iii) 3nc. transcription of DNA C. gluicose deposition (iii) 3nc. transcription of DNA C. gluicose enterestion (iii) 3nc. transcription (iii) 4nc. transcrip	on Bree B
Q No	g Siland	in Shood glates to the cest in Short in Shim of DNA (in Short of Ship	eid from Ad
Q M	A fifty ve	ar old man comes into the emergency ward with dry skin and tongue. He are old man comes into the emergency ward with dry skin and tongue. He are old man comes into the emergency ward with dry skin and tongue. He are old man comes into the emergency ward with dry skin and tongue. He are old man comes into the emergency ward with dry skin and tongue.	sid from the
	complain	as of excessive thirst and frequent micturition. His blood glucose level is 380	
	Complain	etone bodies are present in his urine and arterial blood pH is 7.25	
		tione boules are present in his arme and arestrar as a r	(1)
	(i)	What is the probable diagnosis?	(1)
	(ii)	Deficiency of which hormone causes this condition?	(4)
	(iii)	What is the effect of this hormone on carbohydrate and fat metabolism?	. (-)

A NAMEED MEDICAL COLLEGE FARTMENT OF BIOCHEMISTRY

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Sandy 2016

SEND UP EXAMINATION 2016 MBBS PART II - SEQs

Jarks 60 Allowed: 2½ Hours No. 1. (2.5)How carbohydrates are digested and absorbed in the GIT? (2.5)Enumerate pancreatic enzymes and give their functions. 3 No. 2 A 55 year obese man was admitted in emergency room. He had sign of dehydration like dry tongue and pale dry skin. He had complaint of thirst and frequent micturition. His blood glucose level was 400 mg/di. ketone bodies were present in urine and his arterial blood pit was 7.25 reported (1) What is the probable diagnosis? Deficiency of which hormone causes this condition? Discuss the role of this hormone on (3.5)carbohydrate metabolism. b. What is gluconeogenesis, name the compounds which can be used for gluconeogenesis? (2.5)Mention the irreversible steps of glycolysis and how these are bypassed? Q No. 3 Name the uncouplers and mention their role in the respiratory system of the electron transport (2.5)Write a short note on chemiosmotic theory. (2.5)лb. Write down the steps of Citric acid cycle with factors and enzymes, also discuss its amphibolic (2.5)nature. Write down the significance of HMP shunt. (2.5) b. Q No. 5 Enumerate specialized compounds formed from serine and glycine. (2.5)How Nitric Oxide (NO) is formed in the body? Enumerate its physiological actions. (2.5)Q No. 6 What are Phenylketonuria, Albinism and Maple syrup disease? Mention the deficient enzymes (2.5)with consequences. What is the significance of urea synthesis? Mention its steps with enzymes and factors. (2.5)b. Q No/7 Draw the steps of fatty acid biosynthesis also mention the committed step. (2.5)a. What are ketone bodies? How these are synthesized in the body? Why liver is unable to use (2.5)ketone bodies for energy purpose: Q No. 8 What are lipoproteins? Classify them on the basis of density. Why increased level of HDL is good (2.5)and increased level of LDL is harmful to health? Name cyclic and non-cyclic elcosanoids. Enumerate physiological functions of prostaglandins. (2.5)b.: Q No. 9 How pyrimidine bases are synthesized in the body? Mention the steps with enzymes. (2.5)How uric acid is formed in the body? Give biochemical reasons of gout with its treatment. (2.5)in ohild-Q No. 10 cylagailly-What is the role of cortisol on carbohydrates, proteins and fat metabolisms? Mention synthesis and biological effects of hormones of adrenal medulla. Q No. 11 (2.5)Explain the transcription in prokaryotes. What are mutations and mutagenic agents? Narrate different types of mutations. (2.5) Q No. 12 What are the effects of increased and decreased level of Growth hormone? (2.5)Describe the role of kidneys and lungs in maintenance of pH of blood. (2.5)



SEND UP EXAMINATION 2017 MBBS PART II – SEQs

	` b
Total marks: 60 Time Allowed: 2½ Hours	,
Q No. 1.	-
a. Draw electron transport chain and mention ATP synthesizing sites.	7 7 C (2.5
b. What is oxidative phosphorylation? Mention various uncouplers with their mode of acti	on in (2.5
oxidative phosphorylation.	7
Q No. 2	497
a. Describe digestion and absorption of carbohydrates in GIT.	12.5
b. Enumerate pancreatic enzymes and give their functions.	10/25
₹ No. 3	7
a. Give reasons, complications and remedy of galactosemia.	(2.5
b. Write a note on Cori's lactic acid cycle.	(2.5
Q No. 4	(4.5)
a. Mention irreversible steps of glycolysis. How these are bypassed in gluconeogenesis?	(2.5
b. Explain with examples amphibolic nature of citric acid eyele.	(2.5
Q No. 5	
a. Name ketone bodies. What is ketosis? Give its reasons and complications. Why liver can	not use (2.5
ketone bodies for energy purpose but heart & brain can use for energy purpose?	(-1,
b. How palmitic acid will be oxidized in mitochondria to yield energy? Explain its steps with	າ (2.5
enzymes and factors.	ζ
No. 6 Sexhaum & charle Atrol -> S	revold harm
a. Discuss the metabolic fate of cholesterol.	
b. Mention the reasons of phenylketonuria, alkaptonuria and albinism with their respectiv	
complications.	(
No. 7	
a. How nitric oxide (NO) is formed in the body? What are its physiological functions?	(2.5
b. What is the significance of urea biosynthesis? Draw urea cycle with enzymes and factors	
No. 8	, -
a. Lab findings of 5 years old boy showed orotic aciduria	••
- Locate the metabolic area involved	
- Name the concerned enzyme deficiency ORRTASE OMP decirbe	∼ ↑.
b. How uric acid is formed from purine bases? Mention its steps along with enzymes and fa	actors. (2.5
No. 9	()
a. Discuss the role of insulin and glucagon on carbohydrate metabolism.	(2.5
b. Write down the steps of synthesis of T3 and T4. Enumerate physiological functions of the	yroid (2.5
b. White down the steps of symmetry	(= 2
hormones	
hormones.	
No. 10	(2.5
No. 10 a. Explain the synthesis of RNA from DNA in prokaryotes/	•
No. 10 a. Explain the synthesis of RNA from DNA in prokaryotes/ b. Write a short note on Lesch Nyhan syndrome.	•
No. 10 a. Explain the synthesis of RNA from DNA in prokaryotes/ b. Write a short note on Lesch Nyhan syndrome. No. 11	•
No. 10 a. Explain the synthesis of RNA from DNA in prokaryotes/ b. Write a short note on Lesch Nyhan syndrome. No. 11 a. Enumerate hormones of anterior pituitary. What are the function of FSH?	(2.5
No. 10 a. Explain the synthesis of RNA from DNA in prokaryotes/ b. Write a short note on Lesch Nyhan syndrome. No. 11 a. Enumerate hormones of anterior pituitary. What are the function of FSH? b. What are metabolic and non-metabolic functions of cortisol?	(2.5
No. 10 a. Explain the synthesis of RNA from DNA in prokaryotes/ b. Write a short note on Lesch Nyhan syndrome. No. 11 a. Enumerate hormones of anterior pituitary. What are the function of FSH? b. What are metabolic and non-metabolic functions of cortisol?	(2.5)
No. 10 a. Explain the synthesis of RNA from DNA in prokaryotes/ b. Write a short note on Lesch Nyhan syndrome. No. 11 a. Enumerate hormones of anterior pituitary. What are the function of FSH? b. What are metabolic and non-metabolic functions of cortisol?	(2.5)
No. 10 a. Explain the synthesis of RNA from DNA in prokaryotes/ b. Write a short note on Lesch Nyhan syndrome. No. 11 a. Enumerate hormones of anterior pituitary. What are the function of FSH? b. What are metabolic and non-metabolic functions of cortisol? No. 12	(2.5) (2.5) (2.5) (2.5) (2.5)

Roll No.

Total marks:

THE SUPERIOR COLLEGE, LAHORE SEND UP EXAMINATION 2018 MBBS PART II - SEQs Biochemistry

Time allowed:

21/2 Hours

70 Instructions Attempt all questions 2. The SEQ part is to be submitted within given time. Extra time will not be given. 3. Neat handwriting, use of margins and marker for headings will increase presentation of your paper. 4. Do not write your name or discuss your identity in any way Draw electron transport chain. Mention its ATP producing sites. Name the inhibitors of electron (5) transport chain. What is oxidative phosphorylation? Name physiological and synthetic uncouplers along with (4) their mechanism of action. Enumerate pancreatic enzymes with their functions. (5)Write down the site of synthesis, composition and functions of bile. What is Cholelithiasis? (4)Write down the steps of glycolysis with enzymes and factors. How many net ATP are formed up (5) to pyruvate synthesis? Give reasons, complications and remedy of galactosemia. (4) rame ketone bodies. How these are synthesized in the body? Why liver is unable to use ketone (5) bodies as a fuel? Write down the steps of Beta oxidation of fatty acids, with enzymes and factors. (4) Write down the reasons, complications and remedy of Phenylketonuria, Alkaptonuria and (5) Write down the steps of urea synthesis with enzymes and factors. (4) Q No. How uric acid is formed from purine bases? What is gout? Discuss its symptoms with remedy. (5) Give an account of recombinant DNA technology. What are its applications? Methylation
Hyldoxyldun
Coloralation What is translation? Enumerate 4 inhibitors of translation with their sites of action. What are post translational modifications? b. Define the following: Transcription (0.5)Exon (0.5)Replication (0.5)Introns (0.5)Codon (0.5)Q No. 8 Write notes on: ^Acromegaly Respiratory alkalosis (3) Cretinism (3)