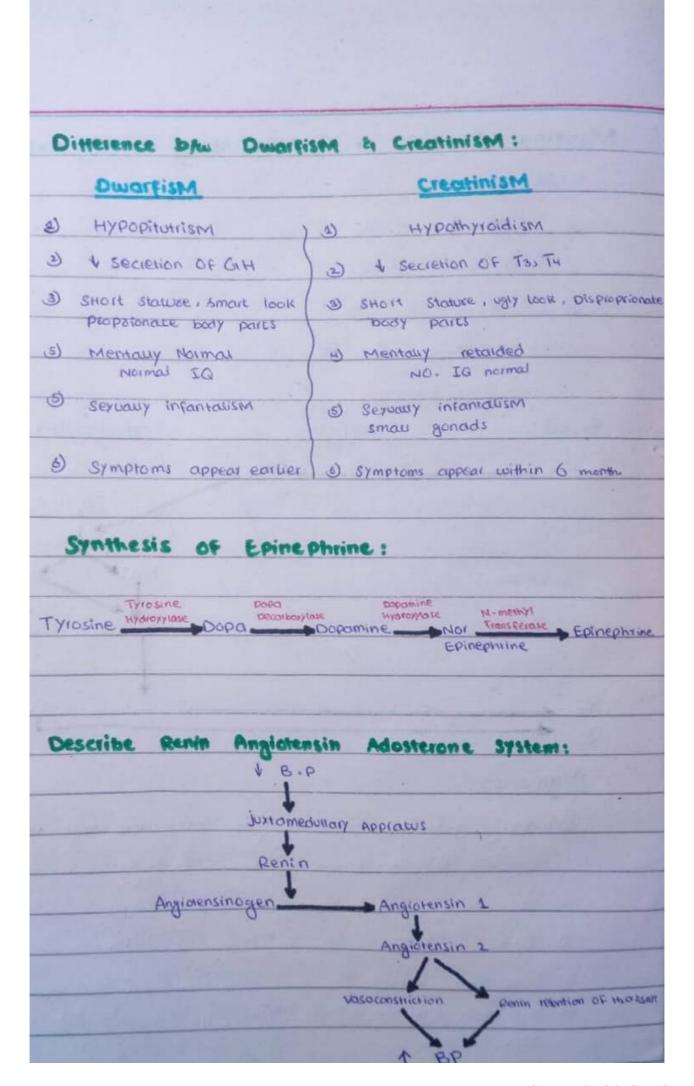
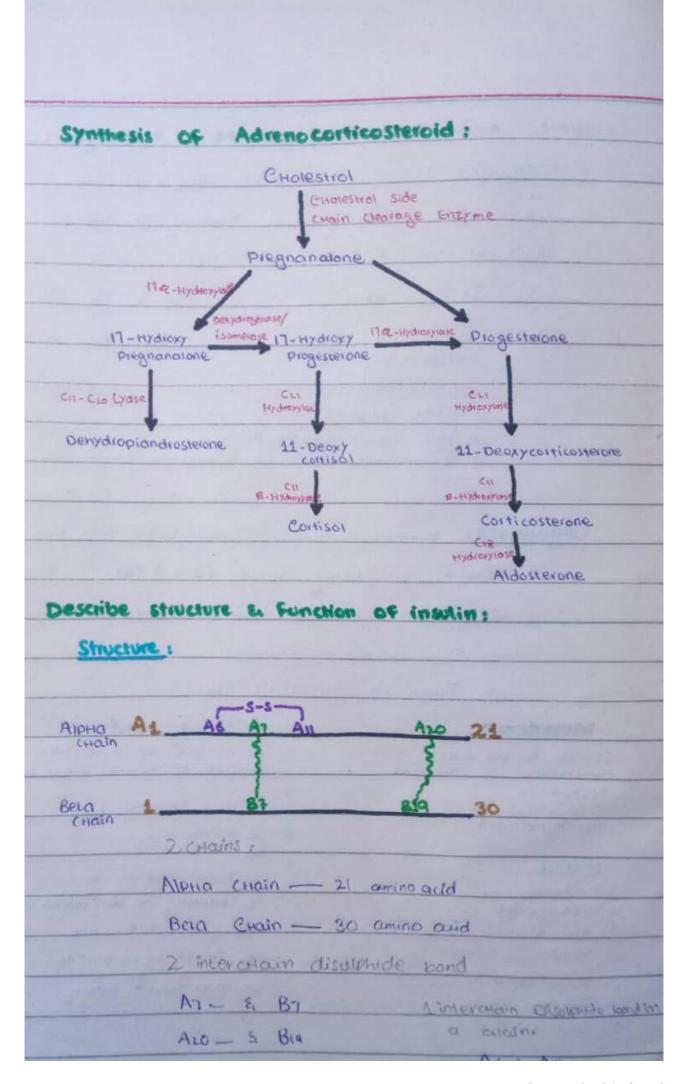


Effect of Growth Hormone:
1) I uptake of Glucose by cen thus 1 Blood glucose
(DIBETOGIEN'S EFFECT) & also 1 Gilucose output from liver
2) Anabolic Effect of Protein metabolism. Causes the
transcription OF DNA for Protein Synthesis & Have O
Mitrogen & Phosphorus balance.
3) Mobilization of Fatty acid from Adipose tissue and
1 Free Fatty acid level in circulation (ketagenic effect)
The state of the second
4) GH Stimulate the Liver to secrete somatomedins
which acts on epiphyseal Cartilages of Large bones
EL 1 CHondrocytes.
Somatomedin are Gitt polypeptide secreted by Liver under
influence of GnH.
Metabolic Effect of Glucagon:
@ Carbohydiates: @ Promote Giuconeogenesis
Promote Glycogenolysis in liver by Phosporylase Enzyme.
The state of the s
B Protein: @ Mobilize amino acid from Extrahepatic
@ Promote entry of amino add
in liver for Galuconeogenesis.
the state of the s

© Lipids : © promote Gluconeogenesis from Galycerol
1 inhibit Storage of Triglycerides in liver
@ Promote Utilization of Fatty acid
Other Effect) . 1 Strength of Heart
. T Bile acid synthesis
. Inhibit Gastric acid Secretion
Effect of conisol:
1) It increase blood Glucuse by increasing Gluconeogenesis
and decrease uptake of Galucose by Ceu.
It A Blood amino acid conc. by 1 Protein degrador
It 1 eirculating fatty acid by 1 Lipolysis.
2) It has @ effect on ACTH
3) St inhibit leukotriens which is mediator for inflammation.
So it is anti-inflammatory agent
4) CVS : 1 C. O & 1 BP
(5) immune system: Suppress by High doses of Cornsol
(6) Bone : Osteoporosis
3) secretary: 1 production of HCI & Pepsinggen.
3) It is AntiAllergic by Stimulating Histornine recording

Compare	and Con	trast City	antists &	Acromegaty:
	galy: It			
En	largment, th	nickening at	nd broading	of bones
	9	7 4		
ESP	ecially at	Extremeties	OF body.	
	It ts	due to	Hyper Sect	etion of GIT
01	CAOX Outportu	adomatus	tumor oc	Ant. Pituitary
		ic tumox	Tomot OF	Aut Processiy
				1
	1) lower	jaws protru	ding outward	1
	2) High B	lood Giucos	e level	
	3) Enlargn	nent of H	and exteet.	
Caiponti	•••	an avolten of	or Con b	00-10
- Guille	Hyper	secretion c	OIH E	before puberty
17				
*	resulting in	talling		) feet.
*	9	9	meight (8-9	
*	a) B- ceu	buin out	Height (8-9)	
*	W B- ceu	9	Height (8-9)	
*	E) A Somo	buin out	leading to	
Myreden	(3) Tumol	buin out	leading to	
Myreden It is thy	B- CEU  B- CEU  Tomos  Tomos  Tomos  Tomos  Tomos  Tomos  Tomos	buin out	leading to semation  Cushing  It is due	Syndrome:
Myreden  It is thyto  Characterized	B- CEU  B- CEU  Tomol  Tomol	buin out	leading to exmarion	Syndrome:
Myreden It is thy is charecterized Appearance	B- CEU  B- CEU  Tomo  Tomo  Tomo  tod  tod  tod  tod  tod  tod  tod	buin out	leading to semation  Cushing  It is due	Syndrome: to 1 contisol Advenal Contex to
Myreden  It is thyto  Characterized	B- CEU  B- CEU  Tomo  Tomo  Tomo  tod  tod  tod  tod  tod  tod  tod	buin out	leading to semation  Cushing  It is due secretion by  Sign a syn  W Hypertensi	Syndrome: to 1 contisol Advenal Contex to
Myreden It is thy is charecterized Appearance	B- CEU  B- CEU  Tomo  Tomo  Tomo  tod  tod  tod  tod  tod  tod  tod	buin out	leading to lead t	Syndrome: to 1 Contisol Advenal Contex to notoms:
Myreden  It is thyre charecterized Appearance Hypothyroid  Features:  It is thyre charecterized Appearance Hypothyroid	B- CEU  B- CEU  Tomol  Tomol  Coid disorder  by edematous	buin out	leading to leading the secretion by Sign & Syn &	Syndrome:  to 1 contisol Advenal Contex to  notoms:  con edness air growth
Myreden  It is thyre  Charecterized  Appearance  Hypothyroid	B- CEU  B- CEU  Tomol  Tomol  Coid disorder  by edematous	buin out	leading to leading.  Cushing  It is due secretion by  Styn a syn  Whyperrensing  Facial the leading	Syndrome:  to 1 Contisol Advenal Contex to  notoms:
Myreder  It is thyrocherenzed  Appearance  Hypothyroid  Features:  It is thyrocherenzed  Appearance  Hypothyroid  Features:  It sieep  It sieep	B- CEU  B- CEU  T SOMO  TUMO!  TOMO!  TOMO!	buin out	leading to leading	Syndrome:  to 1 contisol Advenal Contex to  notoms:  con edness air growth  of skin around n
Myreder  It is thyrocherence  Appearance  Hypothyroid  Features:  It is thyrocherence  Appearance  Hypothyroid  Features:  It is thyrocherence  Appearance  Hypothyroid  Features:  It is thyrocherence  Appearance  Hypothyroid  Anemia	B- CEU  B- CEU  Tomol	buin out	leading to leading to leading to leading to leading to leading to leading the secretion by Styn a syn where the secretion by Styn a syn where the secretion by Facial Hard darkening to Moon withining	Syndrome:  to 1 conisol Advenal Contex to  notoms:  con edness  air growth  of skin around n  uke face







# THE SUPERIOR COLLEGE, LAHORE

2<sup>nd</sup> PROFESSIONAL MBBS

### **ANNUAL EXAMINATION 2019**

### BIOCHEMISTRY



Roll No. -015

Total Marks: 35

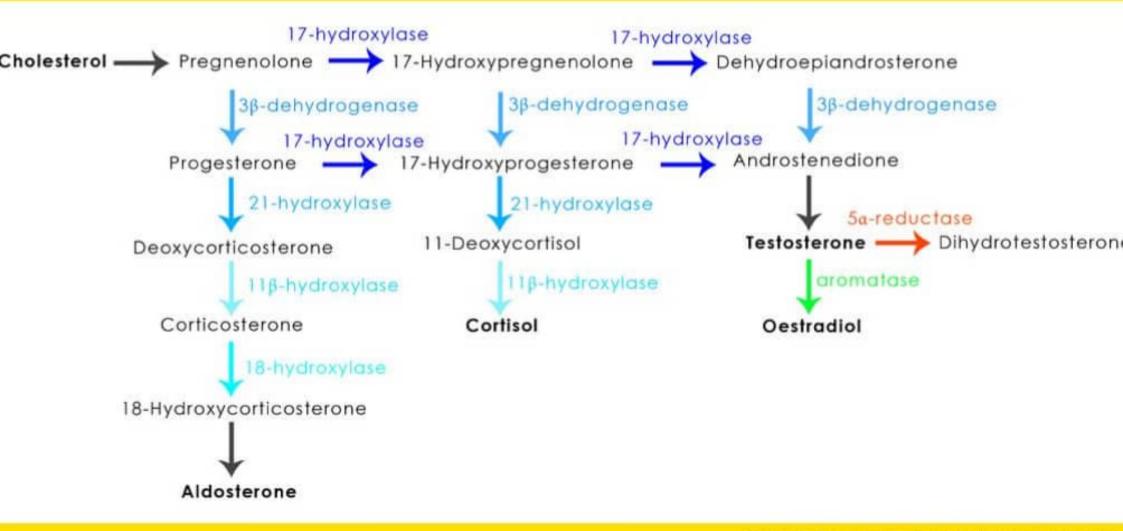
Time Allowed: 2 hours

#### Instructions

- The SEQ's part is to be submitted within 2 hours, Extra time will not be given.
- 2. Neat Hand Writing use of margin and marker for headlines will increase the presentation of your paper.
- Do not write your name or disclose your identity in anyway.

- 144.14 16 14 14		
wa. Write a short note o	n oxidative phosphorylation in human body synthesized in human body. Elaborate their physiological functions.	- 4
b. Which bile acids are Q No. 2	Synthesized in Human body, cloborate than project of	
. Write down the step	os of glycolysis with enzymes and factors.	
b Flaborate normal Bl	ood Glucose Levels in human body.	
ON		
a A how was tested no	ositive for phenylketonuria. Further laboratory investigations revealed	
L Which e	nzyme is most likely to be absent in this patient?	(0.
tt M/blcb a	mino acid is raised? Where fallune	(0
iii. Name t	he alternative metabolites that are produced from the amino acid whose	
level is	elevated in the disease.	
<ul> <li>b. Write down the ste</li> </ul>	ps of urea cycle along with enzymes & factors. What is significance of	
biosynthesis of ure	a?	
Q No. 4	ess of β-oxidation in human body? Name the regulatory enzymes of β-	
va. Elaborate the proce	ess of p-oxidation in ridinal oddy. Name the regulatory and year	
oxidation.	ins? Classify them on the basis of density. Mention the site of synthesis and	
b. What are lipoprote	ins, classify diemon and series	
metabolism of HDI		
VQ No. 5	omplications and remedy of gout.	
b Write a note on or	otic aciduria Oroloke Orocconorrane	
a What is polymeras	e chain reaction (PCR)? What are its applications?	
h. What is reverse tra	e chain reaction (PCR).  Anscription? Mention the role of retroviruses in Cancer.	
Name the site of s	ynthesis of Insulin. Mention its metabolic effects on carbohydrate, protein	
and fat metabolism	n.	
Write short note of	n	
	es Mellitus	
il. Diabet	es Insipidus	
14		
100.00		

## SYNTHESIS OF STEROID HORMONES



In black are hormones, in colour are enzymes