# 2.5.4

Biochemistry Department
Midcourse Improvement
Retest & Answer--sheets

# 2.5.4 Mid Course Improvement



# Dr. Vasantrao Pawar Medical College, Hospital & Research Centre, Adgaon, Nashik - 03.

# Department of Biochemistry

# 2.5.4 MIDCOURSE IMPROVEMENT

The Institution has defined Policy Document to provide opportunities to students for midcourse improvement of performance through specific interventions

UG

Year	Timely administration of CIE	On time assessment and feedback	makeup assignments/tests please write number of students	remedial teaching/support please write number
2015-16	Yes	Yes	Yes (16)	of students Yes (16)
2016-17	Yes	**		163 (10)
2017-18		Yes	Yes (4)	Yes (4)
	Yes	Yes	Yes (5)	
2018-19	Yes	Yes		Yes (5)
2019-20	Yes	Yes	Yes (3)	Yes (3)
W.		103		

H. O. D.
Department of Biochemistry

Professor & Head
Department of Biochemistry
M.V.P.S. Dr.Vasantrao Pawar
Medical College, Hospital & RC.
Adgaon, Nashik ... 2003



## Dr. Vasantrao Pawar Medical College, Hospital & Research Centre, Adgaon, Nashik – 03. Department of Biochemistry

# 2.5.4 MIDCOURSE IMPROVEMENT

The Institution has defined Policy Document to provide opportunities to students for midcourse improvement of performance through specific interventions.

#### UG

Year	Timely administration of CIE	On time assessment and feedback	Makeup assignments/tests	Remedial teaching/support
2015-16	Yes	Yes	V- /	
2016-17	Yes		Yes (one assignment)	Yes (Mentorship)
2017-18		Yes	Yes (one assignment)	Yes (Mentorship)
	Yes	Yos	Yes (one assignment)	Vec (Montanali)
2018-19	Yes	Yes	Yes (one assignment)	Yes (Mentorship) Yes (Mentorship)
2019-20				Remedial teaching

H. O. D. Department of Biochemistry

Professor & Head Department of Biochemistry M.V.P.S. Dr.Vasantrao Pawar Medical College, Hospital & P.C. Adgaon, Nashi: 2 003 Department of Biochemistry

Inward No.-Bio/ /c

Department of Physiology

MARATHA VIDYA PRASARAK SAMAJ'S DR. VASANTRAO PAWAR MEDICAL COLLEGE & RESEARCH CENTER, ADGAON, NASHIK- 3

DEPARTMENT OF ANATOMY, PHYSIOLOGY & BIOCHEMISTRY

Date 28/8/32019

# Time Table of Supplementary Examination

#### A) Theory Examination

Time Table No -01

Day	Date	Time	Paper
Friday	6/09/2019	10am to 12.30pm	Physiology-I
Saturday	7/09/2019	10am to 12.30pm	Physiology-II
Sunday	8/09/2019	10am to 12.30pm	Anatomy-I
Monday	9/09/2019	10am to 12.30pm	Anatomy-II
Tuesday	10/09/2019	10am to 12.30pm	Biochemistry-I
Wednesday	11/09/2019	10am to 12.30pm	Biochemistry-II

#### B) Practical Exam

Time Table No -2

Day	Date	Time	Department	
Thursday	12/09/2019	9.00am onwards	Physiology	
Friday	13/09/2019	9.00am onwards	Anatomy	
Saturday	14/09/2019	9.00am onwards	Biochemistry	

Dept. of Anatomy

HOD Department of Anatomy MVP'S DR. Vasantrao Pawui Medical College, Nashik

Prof & HOD Dept. of Physiology

HOD Dept. of Physiology MVPS Dr. VPMC, Nashik .08.19

Prof & HOD

Dept. of Biochemistry

Professor & Head Department of Biochemistry M.V.P.S. Dr. Vasantrao Pawar Medical College, Hospital & RC. Adgaon, Nashik 622 003 Department of Biochemistry Inward No.-Bio/25A Date: \$|9|18

MARATHA VIDYA PRASARAK SAMAJ'S
DR.VASANTRAO PAWAR MEDICAL COLLEGE & RESEARCH CENTER, ADGAON, NASHIK- 3
DEPARTMENT OF ANATOMY, PHYSIOLOGY & BIOCHEMISTRY

Date 05 | 09 18

## Time Table of Supplementary Examination

## A) Theory Examination

Time Table No -01

	Time Table 140 - 01				
	Date	Time	Paper		
, 1	26/09/18		Physiology-I		
j	C709/18	10am to 12.30pm	Physiology-II		
<u> </u>	08/09/18	10am to 12.30pm	Anatomy-I		
	09/09/18	10am to 12.30pm	Anatomy-II		
	15/09/18	10am to 12.30pm	Biochemistry-I		
<u></u>	11 09 18	10am to 12.30pm	Biochemistry-II		

#### B) Practical Exam

Time Table No -2

~					
Day	Date	Time	Department		
Thursday	13/00/18	9.00am onwards	Physiology		
Friday		9.00am onwards	Anatomy		
Saturday	15/09/18	9.00am onwards	Biochemistry		

Prof & HOD
Dept. of Anatomy

HOD
Department of Anatomy
MVP'S DR. Vasantrao Pavul
Medical College, Nashik

Prof & HOD
Dept. of Physiology

HOD
Dept. of Physiology
MVPS Dr. VPMC, Nashik

Prof & HOD

Dept. of Biochemistry

Professor & Head
Department of Biochemistry
M.V.P.S. Dr.Vasantrao Pawar
Medical College, Hospital & RC.
Adgaon, Nashik. (22 003

Department of Brochemistry

Enward No.-Bio/ 22A

Date: - 20/08/17

MARATHA VIDYA PRASARAK SAMAJ'S

DR. VASANTRAO PAWAR MEDICAL COLLEGE & RESEARCH CENTER, ADGAON, NASHIK-3

DEPARTMENT OF ANATOMY, PHYSIOLOGY & BIOCHEMISTRY

Date - 20108/17

# Time Table of Supplementary Examination

#### A) Theory Examination

Time Table No -01

		Time Tabistic	
i	Date	Time	Paper
-	28/08/17	10am to 12.30pm	Physiology-I
	29/08/17	10am to 12.30pm	Physiology-II
		10am to 12.30pm	Anatomy-I
	31/08/17	10am to 12.30pm	Anatomy-II
-		10am to 12.30pm	Biochemistry-I
		10am to 12.30pm	Biochemistry-II

#### B) Practical Exam

Time Table No -2

	Date	Time	Department
i	04, 109 17	9.00am onwards	Physiology
		9.00am onwards	Anatomy
<u>.</u>	06/09/17	9.00am onwards	Biochemistry

Prof & HOD Dept. of Anatomy

HOD Department of Anatomy MYP'S DR. Vasantrao Pavul Medical College, Nashik

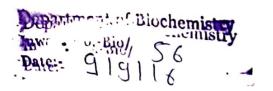
Prof & HOD Dept. of Physiology

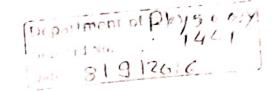
HOD Dept. of Physiology MVPS Dr. VPMC, Nashik

Prof & HOD Dept. of Biochemistry

Professor & Head Department of Biochemistry M.V.P.S. Dr. Vasantrao Pawar Medical College, Hospital & RC. Adgaon, Nashik (22 003

orculate l





### Maratha Vidhya Prasarak Samaj's Dr. Vasantrao Pawar Medical College, Adgaon, Nashik-3. Department of Anatomy, Physiology & Biochemistry

Date 8.9.2016

Subject: Supplementary Prelimanary Theory & Practical Examination September – 2016 Reference: Resolution meeting of board-1 Anatomy ,Physiology & Biochemistry Dt.8.9.2016

#### Time table

#### 1st Year MBBS 2015-16

It is to inform to all the Repeater students that Suplimentary, Preliminary, Examination for 1st MBBS 2015-16 batch (Repeater) will held as given below

#### A) Theory Examination

Time Table No. -1

Day	Date	Time	Subject	Lect. Hall - I
Wednesday	21.9.2016	10.30 to1.00	Physiology I	Lect. Hall - I
Thursday	22.9.2016	10.30 to 1.00	Physiology II	Lect. Hall - I
Friday	23.9.2016	10.30 to 1.00	Anatomy I	Lect. Hall - 1
Saturday	24.9.2016	10.30 to 1.00	Anatomy II	Lect. Hall - I
Monday	26.9.2016	10.30 to 1.00	Biochemistry I	Lect. Hall - I
Tuesday	27.9.2016	10.30 to 1.00	Biochemistry II	Lect. Hall - I

Seating Arrangement: Lect.Hall-1

#### B) Practical Examination

Time Table No.2

Day	Date	Subject	Time	Batch	
Wednesday	28.9.2016	Anatomy	9.00 Am to Onwards	All Repeater	
Thursday	29.9.2016	Biochemistry	9.00 Am to Onwards		
Friday	30.9.2016	Physiology	9.00 Am to Onwards		
			The state of twalds	An Kepeater	

#### Instructions to the students:-

- 2) Disciplines Mobiles, Pen drive, blue tooth...etc instruments are not allowed
  - Any chits, books are not allowed
  - Talking not allowed.
  - Silence should be maintained
- 2) Student should submit journals on the day of their practical exam, to the lab in charge for Verification by Examiner & should be take back after Exam.

Prof. & HOD

Anatomy

Prof. & HOD Physiology

Copy to 1) Dean, MVPS Dr. V.P. Medical College, Nashik.

2) Anatomy, Physiology, Biochemistry Notice Board

3) Boy's & Girls Hostel

4) Library

5) Boys Girls Common Room

HOD

Dept. of Physiology MVPS Dr. VPMC, Nashik

HOD

Department of Anatomy M.V.P.S. Dr. Vasantrao Pawar Medical College, Nashik-3

Prof.& HOD Biochemistry

Professer & Leed Department of 310chemistic M.V.P.S. Dr. Vasantrao Pawar Medical College Hospital & RC. Adgaun, Nashik-422 003.

#### Maratha Vidya Prasarak Samj's Dr. Vasantrao Pawar Medical College Adgaon Nashik-3 Department of Anatomy, Physiology & Biochemistry

Date 13.8.2015

Subject: Suplimentary Prelimanary Theory & Practical Examination Auguest -2015 Reference: Resolution meeting of board -I Anatomy, Physiology & Biochemistry Dt.13.8.2015 Et4 11001 11.12 2 15

Time Table

1st Year MBBS -2014-15

It is to inform to all the Repeter students that Suplimentary Preliminary Examination for 1st MBBS 2014-15 batch (Repeater) will held as given below

#### A) Theory Examination

Time table No-01

Time table No-01				
Day	Date	Time	Subject	Lect Hall
Thursday	20.8.2015	10.00 am to 1.00 Pm	Anatomy -I	Lect. hall-l
Friday	21.8.2015	10.00 am to 1.00 Pm	Anatomy -II	Lect. Hall-1
Saturday	22.8.2015	10.00 am to 1.00 Pm	Biochemistry-I	Lect. hall-l
Monday	24.8.2015	10.00 am to 1.00 Pm	Biochemistry -II	Lect. hall-I
Tuesday	25.8.2015	10.00 am to 1.00 Pm	Physiology-I	Lect. hall -I
Wednesday	26.8.2015	10.00 am to 1.00 Pm	Physiology-II	Lect. hall -I

Seating Arrangement: Lect. Hall -1

#### B) Practical Exam.

Time Table No-02

			010 110 02	
Day	Date	Subject	Time	Batch
Thursday	27.8.2015	Anatomy	9.00 Am to onwards	All Repeater
Friday	28.8.2015	Biochemistry	9.00 Am to onwards	All Repeater
Saturday	29.8.2015	Physiology	9.00 Am to onwards	All Repeater

Instructions to the students

- 2) Disciplines Mobiles, Pen drive, blue tooth ..etc instruments are not allowed
  - Any chits, books are not allowed
  - Talking not allowed
  - Silence should be maintained.
- 2) Student should submit journals on the day of their practical exam, to the lab in charge for Verification by Examiner & should be take back after Exam.

Pof Anatomy

Department of Anatomy I.F.S. Dr. Vasantrao Pawai Medical College, Nashik-3.

Chairman Prof & HOD

Dept of Physiology.

Copy to 1) The Dean, MVPS.Dr. VPMC. Naskiki, Const. V. ST. 1

2) Anatomy, Physiology, Biochemistry Notice Board

3) Boy's & Girls Hostel

h) Library

57 Deys & Girls Comm on Room.

Prof & HOD

Dept of Biochemistry

M.V.P.S. Dr. Vasantrae Pawar Medical College, Hospital & RC. Adjaon, Nashik-422 003.

DEPT. OF PHYSILOGY OUTWARD NO. 68

Maratha Vidya Prasarak Samaj's

Dr. Vasantrao Pawar Medical College, Adgaon, Naspik-3.

Department of Anatomy/ Physiology and Biochemistry

Date: - 22/07/2014.

#### IMPORTANT NOTICE

Subject - For the internal Assessment Examinations for 1st MBBS Students in Anatomy, Physiology & Biochemistry

Reference - 1. MUHS/ X-1/UG/5467/2014. dt.08/07/14.

2. University Notification No. 20/2012. dt. 30/05/2012. Batch -2013-14.

It is to notify to all the 1st MBBS Students of Batch - 2013-14 that, the failure students, Absent and those who have not filled MUHS Examination form of Summer 2014, for any reason, It is mandatory to have eligibility granted by MUHS. Hence there will be one internal assessment Examination.

#### Time Table of Examination is given Bellow -Theory Examination

Day	Date	Subject	Time
Monday	4/8/14,	Anatomy I	10.30 to 1.00
Monday	4/8/14	Anatomy II	02.00 to 4.30
Tuesday	5/8/14	Physiology I	10.30 to 1.00
Tuesday	5/8/14	Physiology II	02.00 to 4.30
Wednesday	6/8/14	Biochemistry I	10.30 to 1.00
Wednesday	6/8/14	Biochemistry II	02.00 to 4.30

\* Place: - Respective Department

## Practical Examination (9.00AM onwards)

Date	Subject	Batch
7/8/14	Anatomy	All Students
8/8/14	Physiology	All Students
	Biochemistry	All Students
	7/8/14	7/8/14 Anatomy 8/8/14 Physiology

All Students should sign the internal assessment for all Departments on 9th August 2014.

Prof. HOD

Department of Anatomy M.V.F.S. Dr. Vesantreo Pawer Medicat College, Nanhike 3

Prof. HOD

Physiology

Professor & HOD Department of Physiology NDMVPS MEDICAL COLLEGE. ADGADN, NASHIN (M S.)

Prof. HOD

**Biochemistry** 

Professor & Head Department of Biochemistry M.V.P.S. Dr. Vasantrao Pawar Medical College, Hospital & RC.

Adgaon, Nashik-422 003.

Copy Submitted to the Dean, MVPS Dr. V.P. Medical College, Nashik.

Copy forwarded to: - The Chairman Academic Board 2, 3 & 4.

Copy forwarded to: - Time Table Committee. For circulation Notice Board Boys& Girls Hostel, Library,



# Vasave viksam Hansq

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MVP's Dr. Vasantrac & Research Centre Vasantdada Nagar, Adagon, Nash	Pawar Medical College Hospital
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Section: PAPER: 3	
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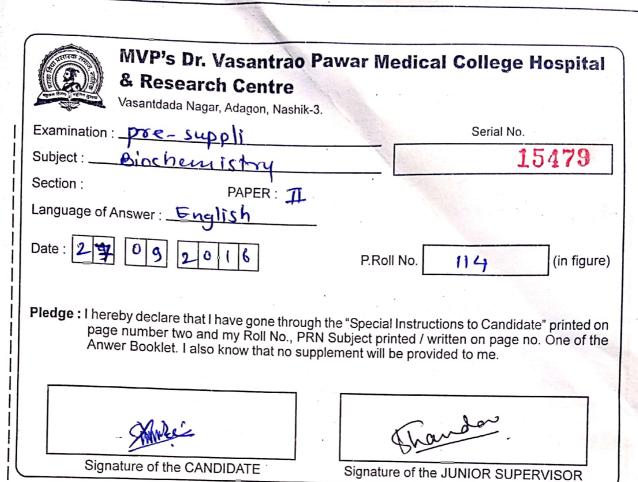
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# VASANTRAO PAWAR MEDICAL COLLEGE, HOSPITAL & RESEARCH CENTRE, NASHIK. MCQ ANSWERSHEET

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ANSWER: ↓	USE BLUE BALL
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	1. FILL THE BLOCKS ☐ USING BLUE BALLPOINT PEN ONLY.
	2. FILL ONLY ONE BLOCK FOR EACH QUESTION AS SHOWN BELOW.
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	3. FILL ONLY BLOCK PROVIDED DO
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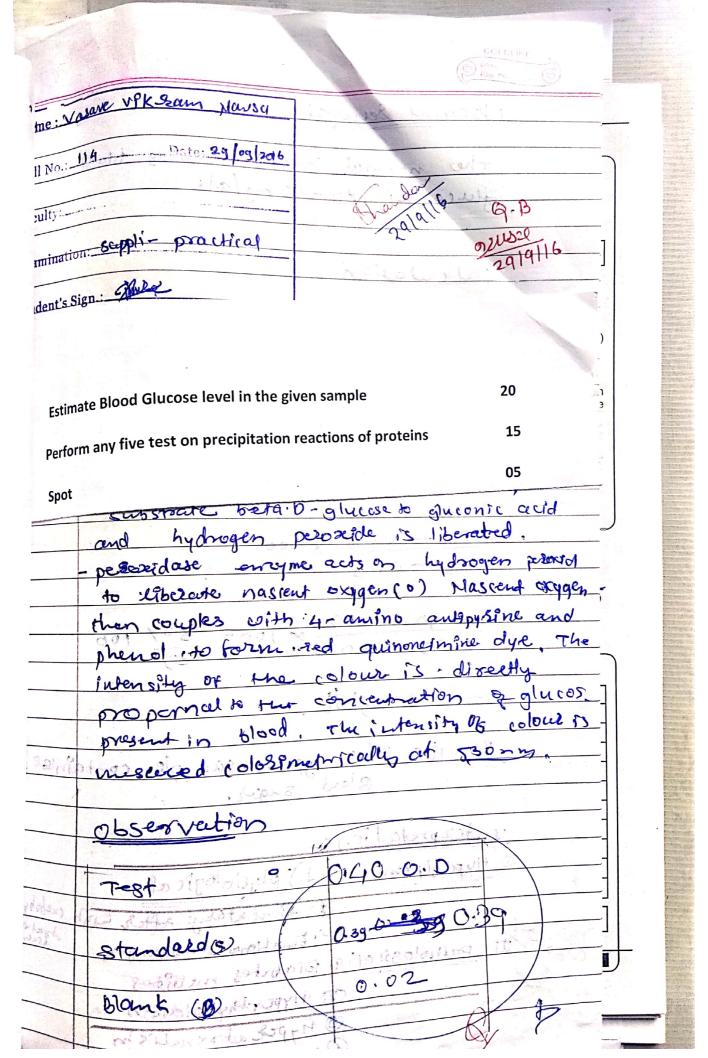
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# R. VASANTRAO PAWAR MEDICAL COLLEGE, HOSPITAL & RESEARCH CENTRE, NASHIK.

MCQ ANSWERSHEET

Vame of Candidate: Vosceve Viksum Nowson  Name of Examination: Pre-suppli  Class: 1st m. B.B. S. Semester:  Subject: Biochemistry Paper: II  Date: 29   09   2016  DUESTION: → 1 2 3 4 5 6 7 8 9 10  ANSWER: ↓ X X X X X X X X X X X X X X X X X X	ROLL NO.
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ANSWER:  A	USE BLUE BALL POINT PEN ONLY
	INSTRUCTIONS  1. FILL THE BLOCKS □ USING BLUE BALLPOINT PEN ONLY.  2. FILL ONLY ONE BLOCK FOR EACH QUESTION AS SHOWN BELOW.
TAL MARKS :-	Wrong Correct
(6) A	<ol> <li>FILL ONLY BLOCK PROVIDED DO NOT MAKE ANY STRAY MARKS NO THE ANSWER SHEET.</li> <li>ROGH WORK MUST NOT BE DONE ON THIS ANSWER SHEET.</li> <li>USE FREE SPACE IN THE QUESTION BOOKLET PROVIDED.</li> </ol>



1			
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Test   im   os + 3 m -   seliwonot + reagent	No chezzy	distinguish between ketose and aldo se					
Test  lim-los+3m-l  seliwonott reagent  heat 4 boil	No chezza	distinguish between ketose and aldo se criven sample carbotydeade					
lame + 20 Lmal	No chezza	distinguish between  ketose and aldose  Given sample carbotydeade					

# DR. VASANTRAO PAWAR MEDICAL COLLEGE, HOSPITAL & RESEARCH CENTRE, NASHIK. MCQ ANSWER SHEET

Name of Can Name of Exa Class: MBI Subject: Bi Date: 10	minat B.s ioch	ion :_  emj:	Pro	Sen	neste	nu er:_	ET		Xai		ROLL NO.  1
QUESTION :-	the local division in which the local	2	3	4	5	6	7	8	9	10 .	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
											ROLL NO. (In Words) One hundred sixteen.
		12	13	14	15	16	17	18	19	20	This is to certify that the entries of Roll No., Question Booklet Version, Question Booklet Sr. No. & Subject have been verified.
QUESTION :-		22	23	24	25	26	27	28	29	30	CANDIDATE INVIGILATOR'S SIGNATURE  Date: 10 /09 / 18
		0 0 0 0	0 0 0 0	0 0 0 0		0000	0 0 0 0	0 0 0 0	0000		INSTRUCTIONS  1. FILL THE BLOCKS  BALLPOINT PEN ONLY.  2. FILL ONLY ONE BLOCK FOR EACH
TOTAL MA	ARKS	S :-			7.0	The second	/	<b>*</b>			QUESTION AS SHOWN BELOW.  Wrong  Correct  3. FILL ONLY BLOCK PROVIDED. DO NOT MAKE ANY STRAY MARKS ON THE ANSWER SHEET. 4. ROUGH WORK MUST NOT BE DONE ON THIS ANSWER SHEET. 5. USE FREE SPACE IN THE QUESTION

# Wakode Nikita



& Research Centre  Vasantdada Nagar, Adgaon, Nashik-3.	var Medicai College Hospitai
Examination: Preliminate Exam	Serial No.
Subject: Biochemistey	6364
Section : PAPER :	0004
Language of Answer: English	
Date: 1 6 0 9 2 0 1 8	P.Roll No. IIG (P) (in figure)
Pledge: I hereby declare that I have gone through the page number two and my Roll No., PRN S Anwer Booklet. I also know that no supple	
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Signature of the CANDIDATE	Signature of the JUNIOR SUPERVISOR
	Cruse

12/07/18 Seen, Verified No Complaints

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	and the second s
(I)	Gout down some some
IJ	Gout is malely to
,	Gout is metabolic discreder of purine
1	TOTAL TON OF STICK
41	Apperurecema is condition in dil
3) •	uid level increases in setum
4)	lorend range of usic acid is 3-7 molds
9	soluble of the unic acid is in more
5	diperurecema is condition in which usic acid level increases in sexum.  As physiological phy usic acid is 3-7 uplde.  Soluble turn i.e. sodium usate.  In severe happerurecimia !!
- 0	of unic oridine sodium
6)	Cystals at sodium urate get deposited  n soft tissue mainly joints.
- 1	n soft tissue mainly joints.
4)	This accumulation of unic acid cerstals in joints called tophi. These leads to paintul joints, i-e. artheities.
8) 1	hose leads to it is
A STATE	paintal joints. i-e. arthritier.
	Gout aze of two types
	1) Primary gout
	1) Primary gout  1) Secondary gout
1)	
_	Primary anut develope du to
	Primary gout develops dur to some enzyme déticiency.
No. of Concessions	the second production of the second s
1	Deficient enzymes are
	) PRPP synthase
	11) PRPP Calutamylamidoteanstazase.
	THE CIZINE

OPRPP synthase -
This enzyme regulate by negative teed back mechanism.  Due to turnation various aspirant enzyme which do not regulated by feed back mechanism, leads to over production at purines and leads to gout
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
PRPP Gilutamylamidoteanstatase -  - Due to lack of teed back regulation of this enzyme  - over synthesis of purines occur.
THE TOP SELL ST. WHATTING LICE
HGPRT - 18 MANUEL MINISTER
- This a purine salvage pathway enzyme - Deticiency of this enzyme causes
Tesh Nanan sandfome,
This causes synthecis of purine nucleon and less utilization of it.
1 1 3 DY 1177 C
Secondare and
secondary good is modern due to
Secondary gout is produce due to various diseases which associate with
type = uricemia.

	Diagnostic signifiance of enzyme -
	- Certain enzymes have important diagnostic
	Enzymes Diseases
	Amylase > Prancreatitis.  Alkaline Aspartate (SCHOT) > Heart diseases
	1DM = phosphate (SGPT) -> Live & diseases.
	Homogentiscate   Alkaptonuria,  Phenylalanine tydroxylase   Phenylketone uria.
	- By measuring serum level of enzymes we can detect the disease in early stages.
	- Level of enzyme other than normal level in serum leads to deffect related to that enzyme.
100	

	Hand and allelaning
d]	Immunoglobulins - (Antibodies)
	Immunoglobulins are special type of motein ake part in dens detense system of body.
	structure of immunoglobulin
-	Each immunoglobulin molecule have two Heavy chains and two light chains. They are held together by disulfide
	Heavy chains and two light chains.
-	They are held together by diswifide
-6-1	Inkase (5=3)
-	Immunoglobulin is 7-shape molecule.
-	Each chain have two region.
	(1) Constant
	1 Variable.
	Matiable region of each chain is used fore binding with antigen.
	Mariable region is specific to specific antigen.
	with the comment with at a property
	Immuno globulin and &-globulins are not strongmous.
	Immunoglobulin is functional teem and f-globulin is a

	Immunoglobulin have five types like
	- Ig G
	- 19
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- Ig D 1 d 1 more of the first
1 24/10/	- Ig E
	Ta Girld delpoisment to amulsusta
	- It is the only immunoylobulin
	which can cross placenta,
	-it is predominantly occur upto -
100	usited sands of of ributelpointment -
	Toler and and and and
0	Type -
	- IgM is largest immunoglobulin  - it is made up of pentameric
II Intu	polypephae chains.
	- This can not transfer transport - placenta & blood vessels.
33/6	the east attragest anyon aldoned
3 7	nogettan
	gA - Ta A box His in a later
	argly present in colostrum.
	- It provide passive immunity to
	NEW DOEN
Vice 1	431 Ketiminist to i establishmeniant
	DELES COUNTRY OF THE

-7	
7	Genetic code.
	Genetic code very important too transcription, translation and utimally protein synthesis.
	Genetic code is codon at three amine acid
	Charasteristic of Genetic code
(	D specificity -
-	Genetic vode is specific toe specific
-	they may have some exception
	Universal
	crenetic code is preserve during proce est evolution.
-	Hence, toe specific amino acid specificamino acid specific code is tound
	OVEE.
-	They may have some exception
(	II) Degenération -
-	Gentic code is degenerative.
-	due to one codon can code tos more than one amino acid

	1 Unambigous.
7	- Genetic code le mambiante
	- Grenetic code is unambigous due to one amino acid bave can code by
12/2/1	more than one codon
	- This due to wobbal - typothesis.
	wobbay - hypothesis.
P. Carlot	( Continuous - robot at about a dame
1912 18	numb actions of dider this of our chine
	Genetic code is continuous sequence of
	HUCLEOTICE.
	This sequence is without any punctuation mark like quama, tull stop, or any gap.
	mark like guama, tull stop, on any gap.
	att 12002 ser 2 d 12070 et shot a danio'-U
	Tritioting and a second in the
	- Initiating codon - Aug predominantly
	sometime GVG1.
5300	- stop codon - UAA, UGA, QUAG
1 2	nother do line
	the onine situage set panel -
	Lavet 31 shes 235 asp John James
	methouse serve such port joht - for
	+ Indition Anapar (113)
	as the sample of all along offering
NEW S	with the second second sub-

Ы	RNA - RNA i.e. Ribonucleic acid.
	Structure of RNA
7)	Pentose -> Ribose sugar s carbon atom, compound
	The diagram of they - detail to the
	functions of RNA
	RNA is impostant molecule of the teanscription of teanslation
_	During transcription intermation trom  DNA to mRNA is transported.  Trom mrna it is by with amino acid  various protein synthesis occur.
	RNA have nations types
	mRNA -  it is massenge & RNA which teanspost  intermation team DNA to the team of nucleus  to extessol.  t-RNA-
	Transfer PRMA.  if transport amino acid

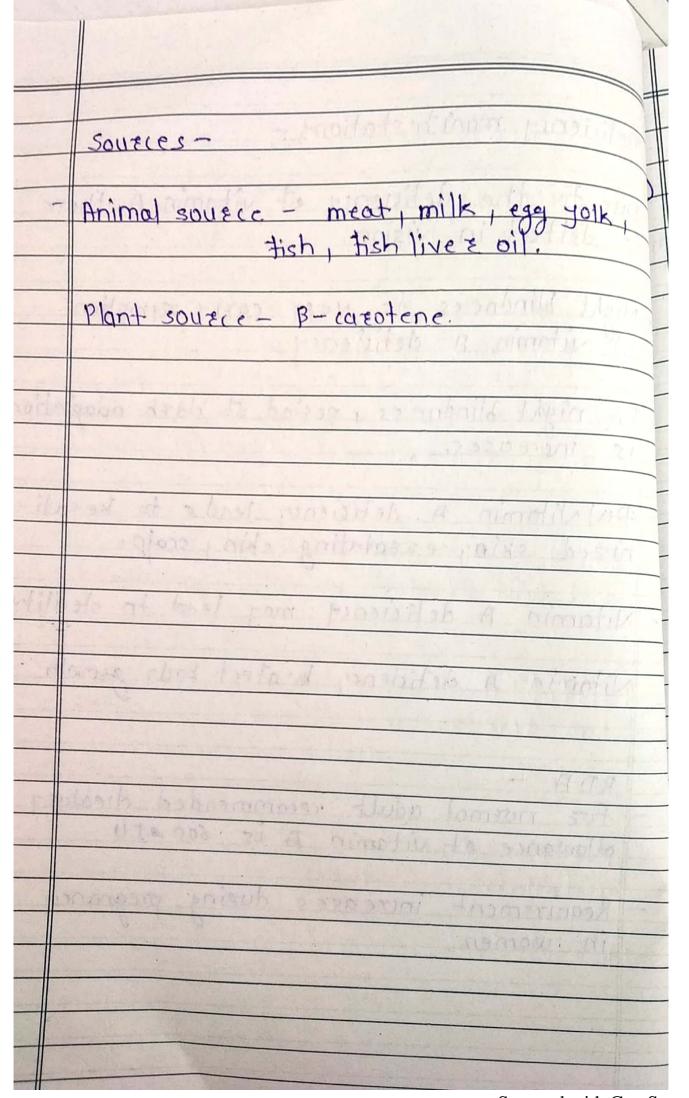
The state of the s
- 1 2019
- soluble RNA
4) hn RNA it is heteronucleur RNA after modific
it is heteronuclear mann after modification it is converted to mann after modifications
- The state of the
- 5) Y-RNA - Ribosomal RNA - Ribosomal RNA - matein synthesis
- Ribosomal RNH - it take part in protein synthesis
THE THE PERSON AND TH
The state of the s
The second of th
- Selvine Strate of House of the selvine of the sel
CALLED STREET

1)	Clinical condition - sichle cell anemia.
-	Tale culaz detect -
T	n sickle cell anemia, mutation i.e. point nutation occur in globin chain.
P	the 6th position of globin chain, valling
1	Dur to this mutation, shope of RBC is change team biconcave to sickle shope
-	In low or tension parson with sickle cell anemia have problem in breathing of hypoxia.
	Hypoxia is due to low oxygen supply to
-	Biochemical basis of sickling of RBC -
Mary Control	Point mutation of globin chain.
and the latest designation of the latest des	in sickle cell, x-globin chains are produc

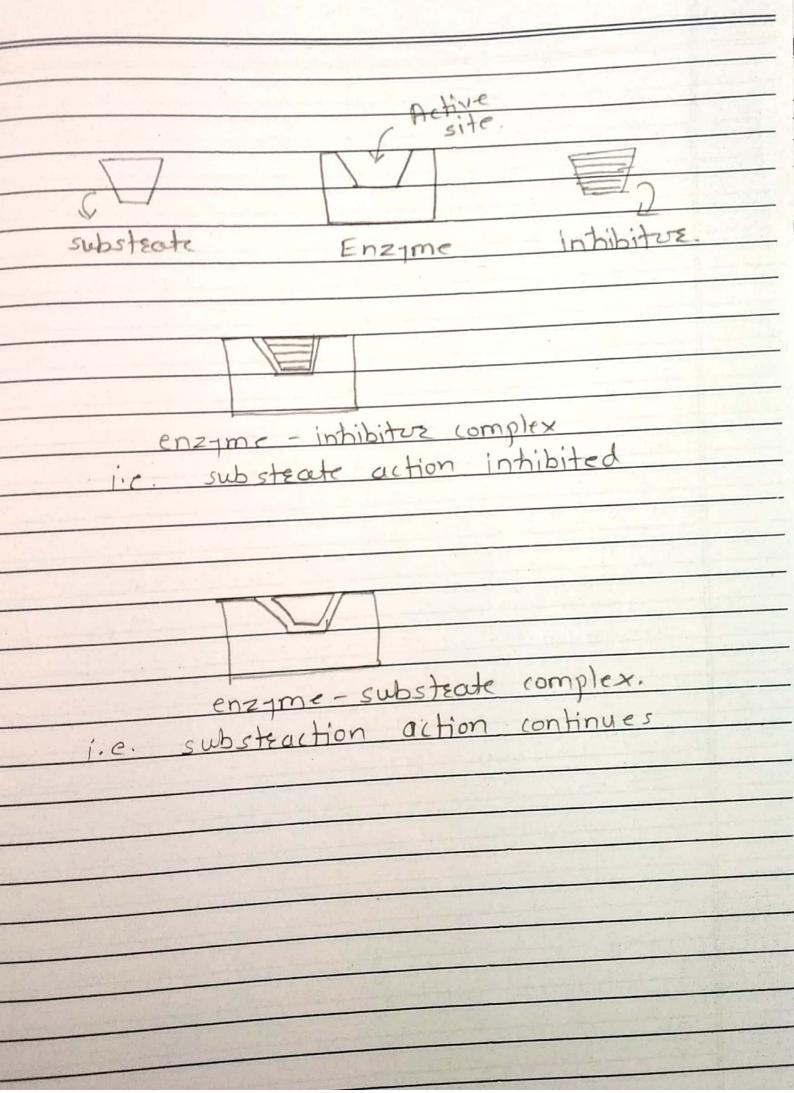
B-globin chains have abnoxmabity
B-globin chain instead of glutathione.
AA 24 24 BOULDING SUOJEO WAY
Other lab investigation -
Their RBC shape during typoxic condition
- is there + malerial parasite develop in that  parson or not  because sickle cell anemia is registant  to maleria.
The state of sublaces of the state of the st
Laurence de la
AND THE PARTY OF T
Mark - Harris

	Vitamin - ASH
	Vitamine are leti
	Vitamine are defined as vital amino
Part of the last o	It is very essential for normal growth
	of body and body function
	The terror son less in simple
	body function
	Classify vitamins -
	Vitamins are classifed as
	1) Water soluble - vitamin B and B complex
	and vitamin c.
	24 Feb 5-11-11 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	3 fat soluble - B, a, d, E, K. riitamins.
	a contratage to the testing of the sine of the
	Vitamin A -
	- Retinol, Retinoic acid are considered as
	vitamers of vitamin A.
	- Vitamin A is that soluble vitamin
	B- carotene tound in plants
1	
( Tols	

Biochemical function -
Vitamin A is impostant tor vision, colour idientitication, growth, normal report ctive tunction.
- Vision -
- Vitamin play important tole in norma vision through Wald's visual cycle
- Greowth -
Vitamin A is play impostant role in tissue growth and tissue differentiation
- Vitamin A is impostant toe normal epitheliu
- Vitamin A is important the reproduction
- Vitamin A is usetul for various biochem cal tunction
- B- carotene is natural antioxidant
the free of a neodile.
The state of a sign to be designed to be a state of the s



(	competitive inhibition of enzyme >
3	In competitive inhibition, inhibitors si ressembles with substrate
1	Due to structural similarity with structural similarity with structural similarity with structural similarity with structured sim
I	I inhibitor bind to enzyme at acti
1	shape of enzyme active site get char to space the substrate to bind the enzyme.
てごい	Due to this substrate is inhibited whibitor to bind the enzyme and whibit their action,
(db)	ompetitive inhibition can be over continued increasing substrate concentration
Salaria	empetitive inhibition may be reversible



### DR. VASANTRAO PAWAR MEDICAL COLLEGE, HOSPITAL & RESEARCH CENTRE, NASHIK. MCQ ANSWER SHEET

The state of the s	
Name of Candidate: Nikita Gr. Nakode  Name of Examination: Preliminasy  Class: MBBS I Semester:  Subject: Biochemister Paper: II  Date: 11/09/2018	ROLLNO.
QUESTION: → 1 2 3 4 5 6 7 8 9 10  ANSWER: ↓  A  C  C  C  C  C  C  C  C  C  C  C  C	ROLL NO. (In Words)  One hundred
QUESTION: → 11 12 13 14 15 16 17 18 19 20  ANSWER: ↓  A □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	QUESTION BOOKLET VERSION:  This is to certify that the entries of Roll No., Question Booklet Version, Question Booklet Sr. No. & Subject
B □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	have been verified.  CANDIDATE INVIGILATOR'S SIGNATURE  Date: 11 /09/18
OUESTION: → 21 22 23 24 25 26 27 28 29 30  ANSWER: ↓  A □ □ □ □ □ □ □ □ □ □  C □ □ □ □ □ □ □ □	USE BLUE BALL  POINT PEN ONLY  INSTRUCTIONS  1. FILL THE BLOCKS ☐ USING BLUE BALLPOINT PEN ONLY.  2. FILL ONLY ONE BLOCK FOR EACH QUESTION AS SHOWN BELOW.
TOTAL MARKS:-	Wrong Correct  3. FILL ONLY BLOCK PROVIDED. DO NOT MAKE ANY STRAY MARKS ON THE ANSWER SHEET. 4. ROUGH WORK MUST NOT BE DONE OF THIS ANSWER SHEET. 5. USE FREE SPACE IN THE QUESTION BOOKLET PROVIDED.



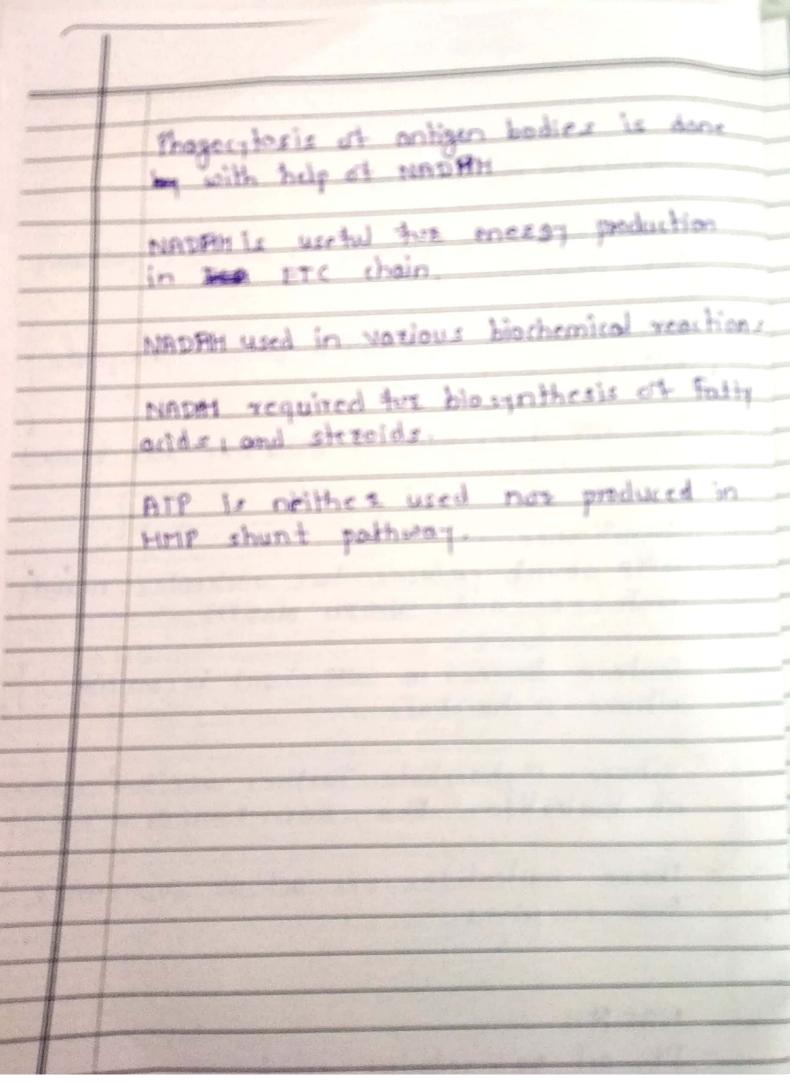
No supplements shall be provided to any candidate in any case

William to the final tenth	
MVP's Dr. Vasantrao Paw & Research Centre Vasantdada Nagar, Adgaon, Nashik-3.	var Medical College Hospital
Examination: Areliminetes Exam	Serial No.
Subject: Biochemistry  Section: PAPER: IT  Language of Answer: English	6363
Date: 11 0 9 1 0 1 8	P.Roll No. 116 (P.) (in figure)
Pledge: I hereby declare that I have gone through to page number two and my Roll No., PRN Anwer Booklet. I also know that no supple	the "Special Instructions to Candidate" printed on Subject printed / written on page no. One of the ement will be provided to me.
Owner	
Signature of the CANDIDATE	Signature of the JUNIOR SUPERVISOR

Seen, Verified No Complaints

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5										-	-					
6								-			-	200				
7					-				110							
8																
9																
10									-		-	-			-	-
Mari		otted		Dr	Exar			Sign	ature	:		1	ОТА	L→	2	7.0

	Barre L	
2.	[E	CL 12 to Construct to the state of the state
	D.	Significance of HMP shunt >
	y	HMP shunt is pathway is another pathway tor gly10/75is.
	7	HMP shunt is also called pentose phosphate
	3)	In HMP shunt pathway ATPs are not turmed.
		Significance - made grade
		pentoses and NADPH. NADPH
	-	Pentose tremed in HMP shunt is mainly ribose-5 phosphate.
	-	Ribose - 5 phosphate turther use tor synthesis of nucleotides. like, NADI FAD, CO A etc.
	-	These nucleotides are act as coenzymes tor enzymes.
		NADAH  TH act as reducing agent  NADAH act as co-enzyme for many enzymes.



6)	Diagnosis -
4	Test to detect usine in gluwse in usine >
-	Test to detect usine in gluwse in usine > Benedicts test are used to detect usine in gluwse.
N Ale	

3	Sicurdine Fest -
	clearance test is diffined as removal of substance totally from serum per in minute. I min per min. ml per Imin.
	cleazance = UV
-	Creatine cleazance -  Creatine cleazance is process in which removal of creatine from given blood sample mel per min.
	Creatine cleazance le used tor accessement of liver tunction
	Amount of creatine se cleared team Indesample in I min is cleatance test.
	this test-is useful too livez diseases

4.	
4)	Electrophoresis ->
	Electrophoresis is the process by which the esubstances having charges are separated based on their charge.
1 1 1	Type of electrophoresis Grel electrophoresis Paper electrophoresis electrode electrophoresis.
	In se sum, various biological components contain ionizable compound.
	By using electrophoresis we can separate them trom serum.
	Components of electrophoretic tank- Electrophoresis tank electrodes - cathoda, anode Gel electric wire. separation plate between two electrodes.
	In electrophoresis process, the speed of long of deposition on electrode on to dissolve into solution is dependent on

- concentration - Temperature electrophore	ion of	lons also a	in solution	ation,	· jr
electrophore	2515.			1-1-11	
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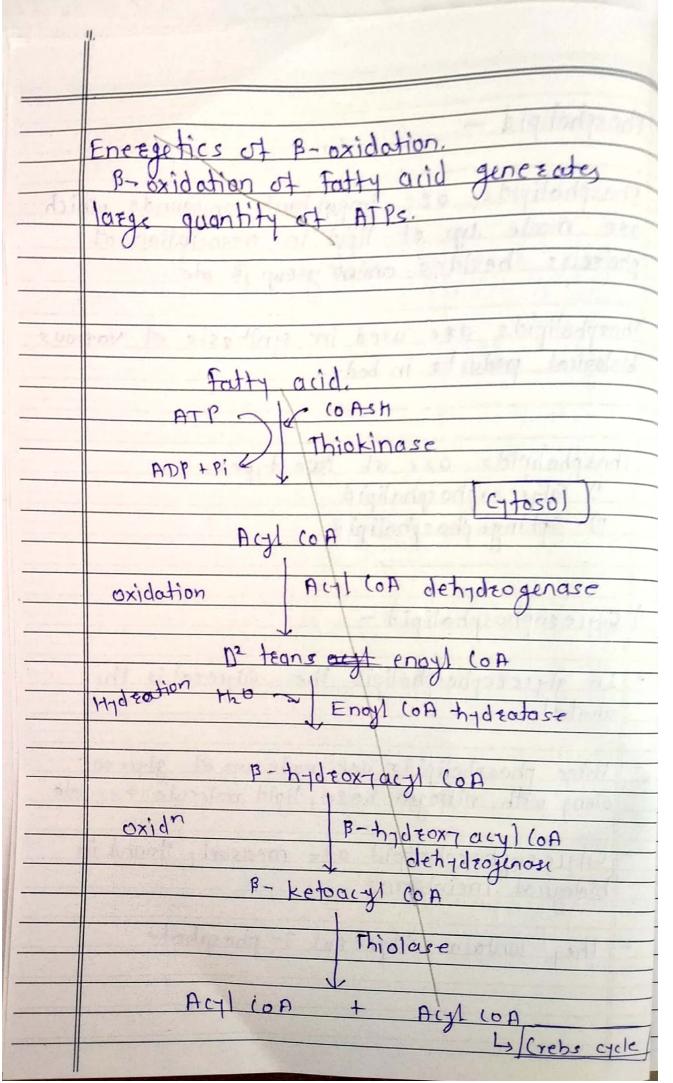
	5	Tumoz marker
		Tumor marker support the diagnosing the concer, besides this it also help in treatment of disease.
		Tumor markers are special protein produce
		With the help of tumor marker, early diagnosis of disease is done.
		Some time tumo = markers are not specific.
		it used to detect presence of conces.
(	0	Carcino embryonic antigen (CEA) complex glycoprotein normally produce in embryonic fissue. Hive & 1 gut.
	1	Presence (EA is detected in several cuncers) serum CEA also detected in several other discreders. like alroholic ocirehosis, emphycema.

	Alpha-tetoprotein -
941	it is chemically glycoprotein synthesized team 3 yolk sac in Jedal lite.
	elevation AFP in serum mainly indicate - the concers of livez, 4 germ cells of - testis.
	Encel M. Last Balanta
	35 1856 3 3 243 644 1000 11 d. 02 3 3 3 3 5 2 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	63 PERSON PLEASURE SERVICE SERVICE SHIPS OF SHIP
The same of the sa	

	Toogle-Class
3)	Ridinia
No.	Ridioiso topes.
	Radioisotopes are isotopes which are same molecular weight but different atomic number
	Ex. radioisopes et jodine are I 138 I 132
	Radioisotopes are have significance in diagnosing of various diseases.
	these isotopes are used various dease treatment larious tretment of concer.
	Radioisotopes are also used in detection of heart blockages, any blockages in vessels.
	the radioisotope of same molecule is different in their action.
	Phosphorus, iodine, nitrogen, carbon have their radioisotope.
	Radioisotope are used largely in various biological reaction tor detection of substrate and product reaction.

	- Radioisotopes are used in nucleur reactions also
3.94	With the help of radioisotopes we can diagnose the disease in early stage and can prevent severe stages of deasea
FOUR	report of monthly seed and insertations
2011/105	disers le 200 son toro son trapioni sur son
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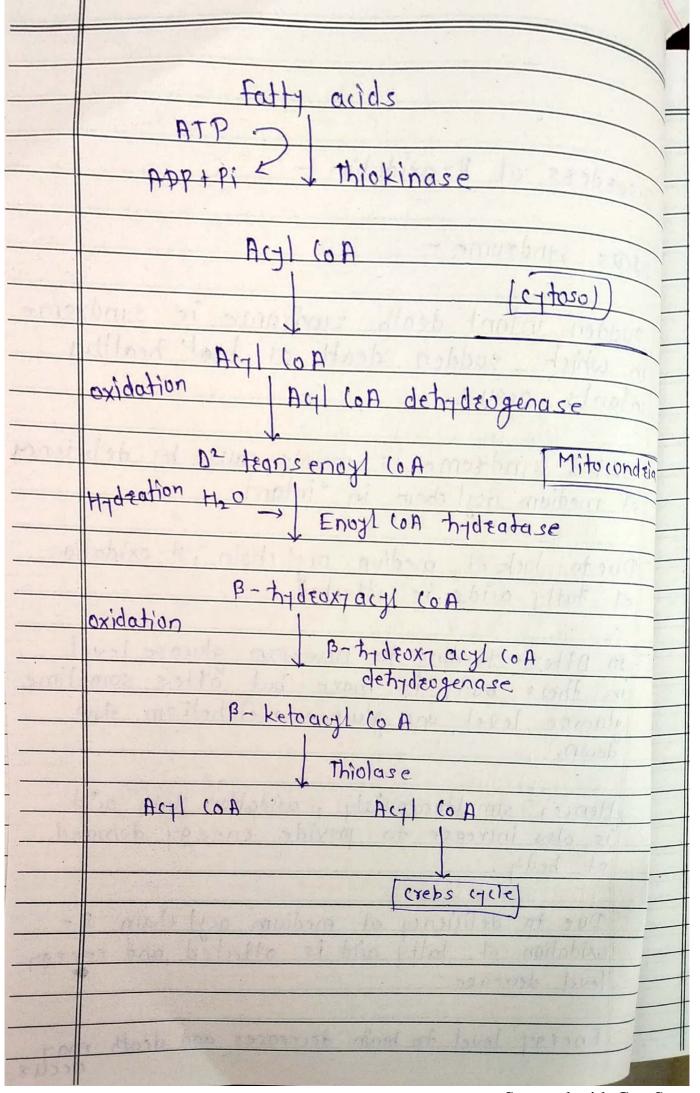
1) Phospholipid —
Phospholipids are important compounds which are made up of ligid in association of phorous besides animo group it ale
Phospholipids are used in synthesis of various biological products in body
Phasphalipid: aze of two types.  U Glycezophosphalipid  U Sphingaphasphalipid.
1) Ghrezophospholipid -
- In glycezophospholipid the Glycezol is the alcohol.
- Thèse phospholipids are made up of glycerol along with nitrogen base, lipid molecule + ele
- Glycezophospholipid aze measurly tound in biological membrans
- They contain Glycezol 3- phosphate



	B-oxidation ATP
	7 FADH2 -> 10.5
	TNADM -> 17.5
)	Phosphatidic acid - simplest toem of phospholipid.
	it is intermediate betwoon synthesis of tryacyl- glycerol trom phospholipid.
2)-	lecithin - Most abundant phospholipid.  lecithin is phosphatidic acid with choline as base.
-	lecithin is storage turn of bodies choline
1	Dipalmatoy lecithin act as surfactont of lung.
3)	Cephalin -
	in cephalin ethanolamine is nitrogen base cephalin is differ trom lecithin in only base.
4)	Phosphatidyl seelne > Amino acid seeine
	Phosphatidyl seelne > Amino acid seeine is present in this phospholipid.

3 spingophospholipid
- spingomyeline is alcohol in spingophospho- lipid. it is amino alcohol.
They do not contain glyce sol at all
- Ceramide act as second messenger by regulating programmed cell death.
functions of phospholipid -  Un association of protein phospholipid frem  steuctural components of membrane
2) it is impuetant the synthesis of & lipo protein , thus participate in transport
3) Phospholipid paeticipate in revezse cholestero)
colara para e antara upododgand
and the second of the second o

( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	
3 ·	ahen utta
2]	Diameter
	Discreders of B-oxidation -
	SIDS syndrome -
	The contract of the contract o
-	sudden intant death syndrome is syndrome
	which sudden death of healtha
	intants occur.
-	STD & Sandana in a 11
	SIDs syndrome is mainly cause by deticiency of medium acyl chain in intant.
	as aborbert and from the
-	Due to lack of medium acy chain, B-oxidation
	et tatty acids is attected.
-	By ptlor decision to waster when it
	in their body is more but after sometime
	glucose level and glucose metabolism slow
	down.
•	Hence, simultaneouls/, oxidation toty acid is also increase to provide energy demand
	of body.
	Calling adopting
	Due to deficiency of medium any chain B- oxidation of fatty aid is affected and energy
	level decrease
	- Energy level to brain decreases and death may
	occur.



Scanned with CamScanner

Energetics et B-oxidation
7 FADH2 10.5 ATP
7 NADH 17.5 ATP.

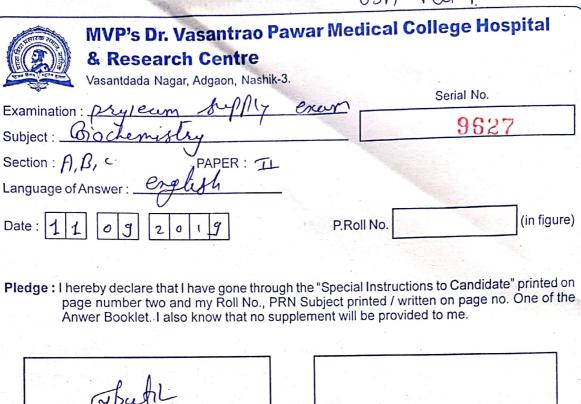
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3.	Make a series of the series of the Make a series of
	Metabolic acidosis -
-	Metabalic acidacia in
	Metabolic acidosis is too metabolic disorder
-	Measure course of metabolic acidosis is
	decrease in bicarbonate ion in blood.
-	decrease in bicarbonate ion is due to decrease
	action with Ht ion,
	He of a mode talent anti-
	Metabolic acidosis 1 pH ut body thuid decreases.
	Metabolic acidosis may be seen in severe
	diobetes mellitus.
-	Couse of metabolic acidosis is excessive
	production of organic organic organic which combine
	production et regaric regide which combine with Nation and deplet alkali reserve.
	Salvery to be my ing doors bigues abivery fit
	Anion gop and metabolic acidosis -
	increased production and accumulation of
	organic acid causes elevation in anion gap.
	Metabolic acidosis usually compensated by
	Hyperventilation et lung.
60	

=	
	Mentenance of blood pH
	1) Blood butters 2) Respiratory mechanism
	3) Renal mechanism.
	- Indulare to among asunon
	21 2120hrib 200001 10
	Blood byttez-
******	Butter defined on solution of a weak acid
Le rus	and its salt with strong base
-	p + +
200	Butter resist change in pH
	Bicurbonate butter system-
	a savez mi mans and rice attrobine altodatell
-	most predominant buffer system.
	Cause of metabolic andores is execute
2	Descipation which the control of the
	Respiratury mechanism
-	it provide ropid mechanism at the maintana ce at acid-base balance
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-	kidner, the renal tubule excrete H+ ion in usine, helps in lowering H+ ion conc.

Josh Patil

Signature of the JUNIOR SUPERVISOR



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## DR. VASANTRAO PAWAR MEDICAL COLLEGE, HOSPITAL & RESEARCH CENTRE, NASHIK.

MCQ ANSWER SHEET

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USE BLUE BALL

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#### INSTRUCTIONS

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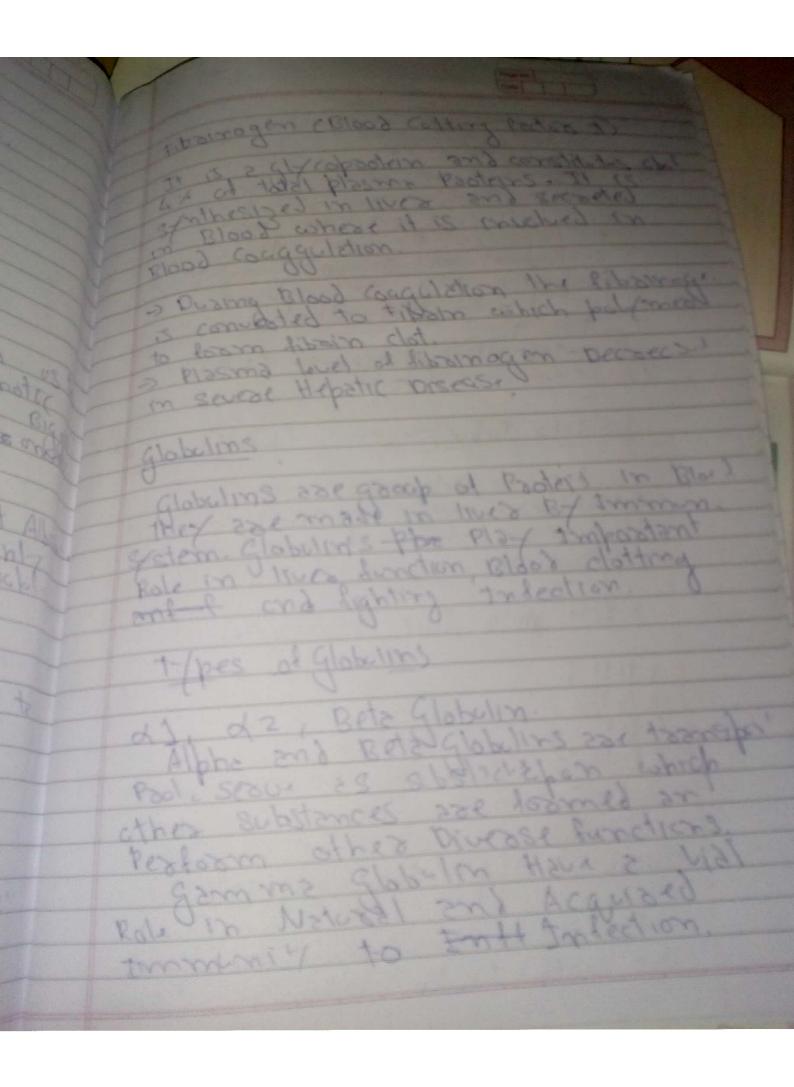


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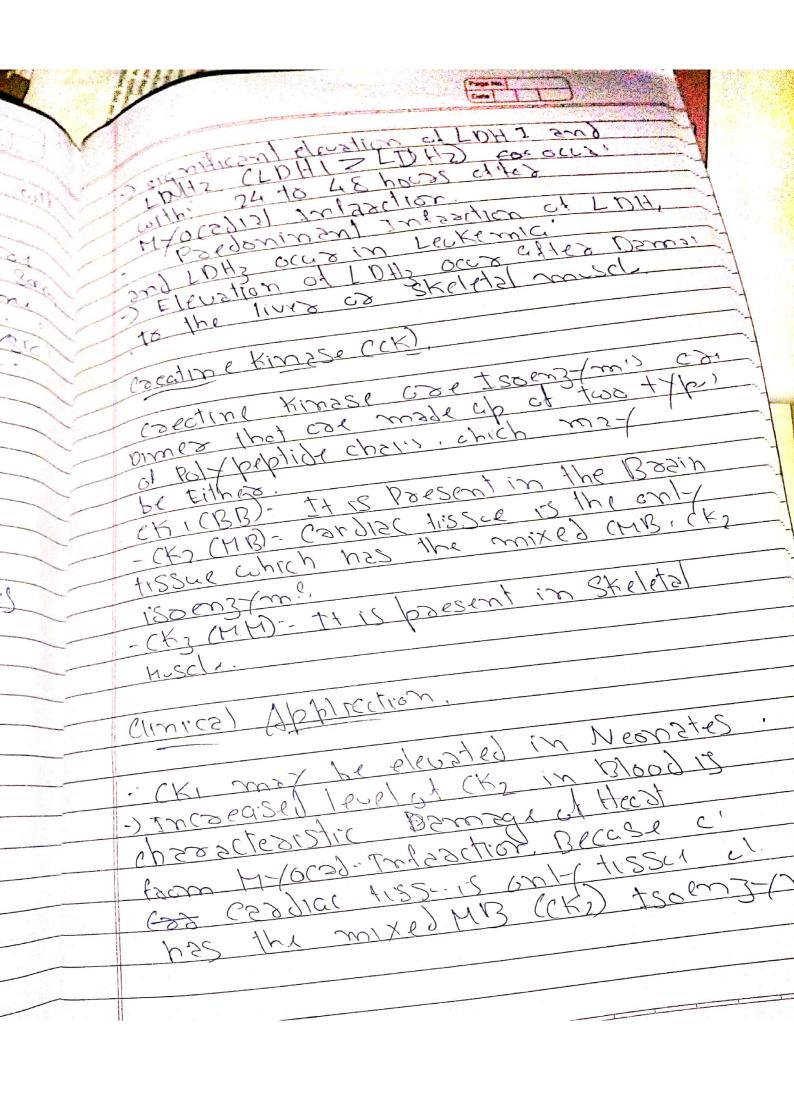




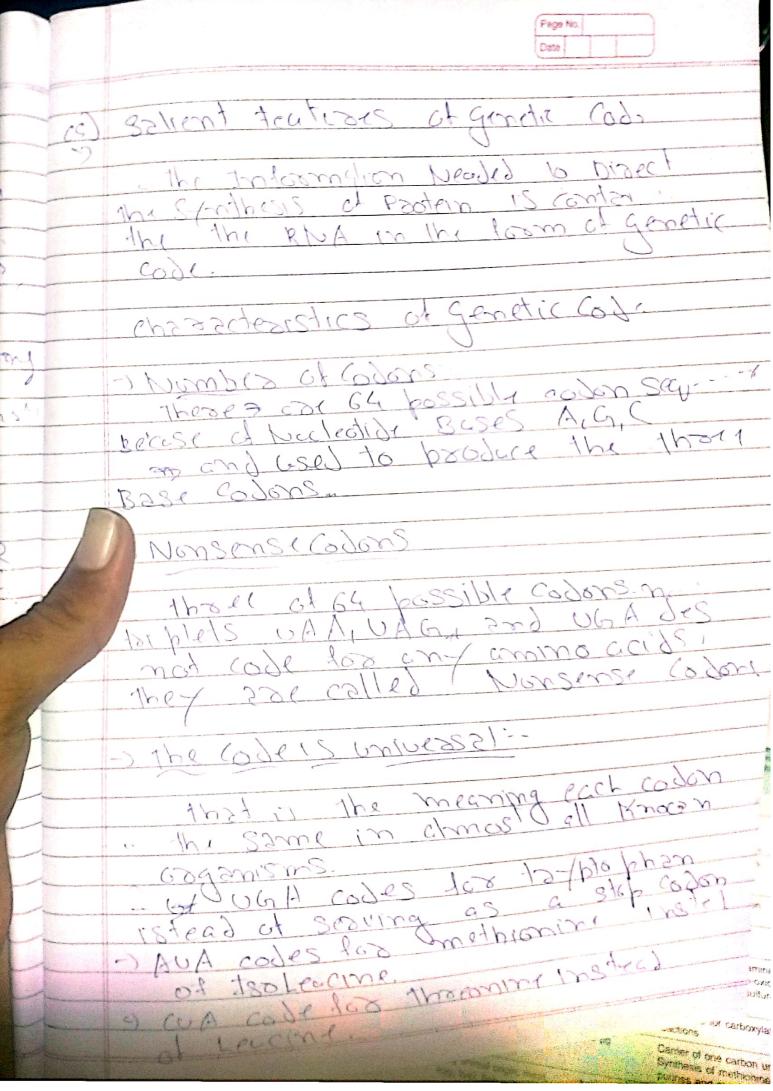
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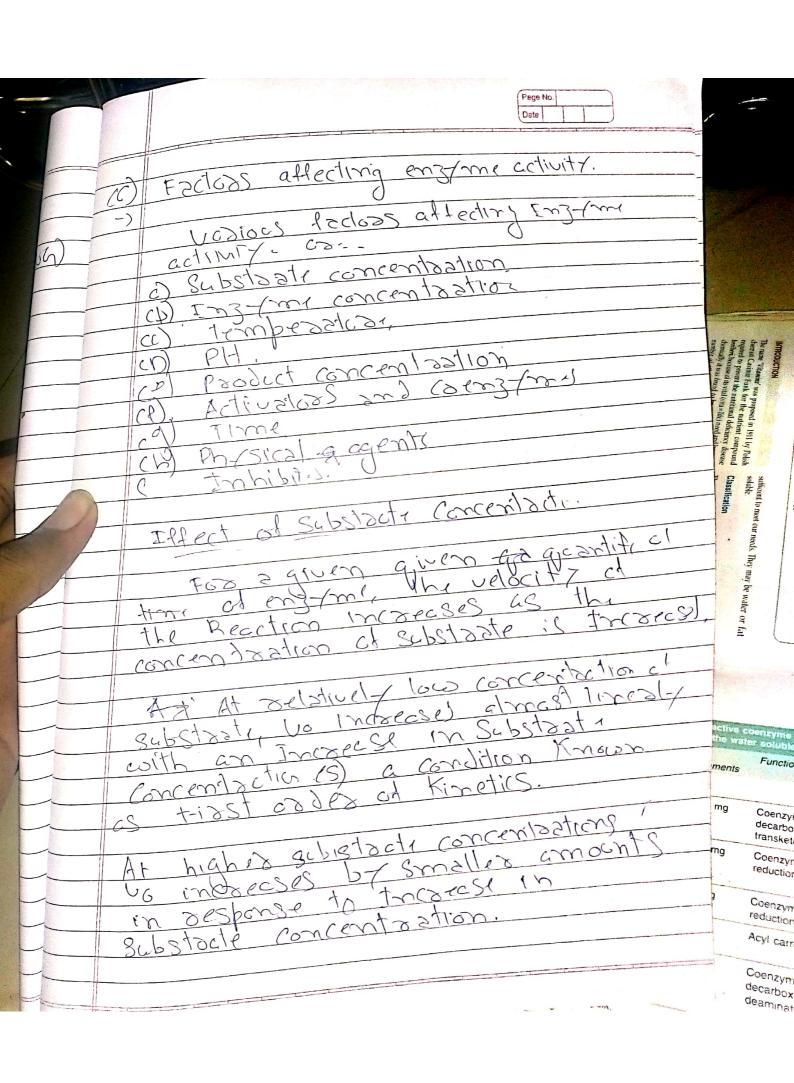
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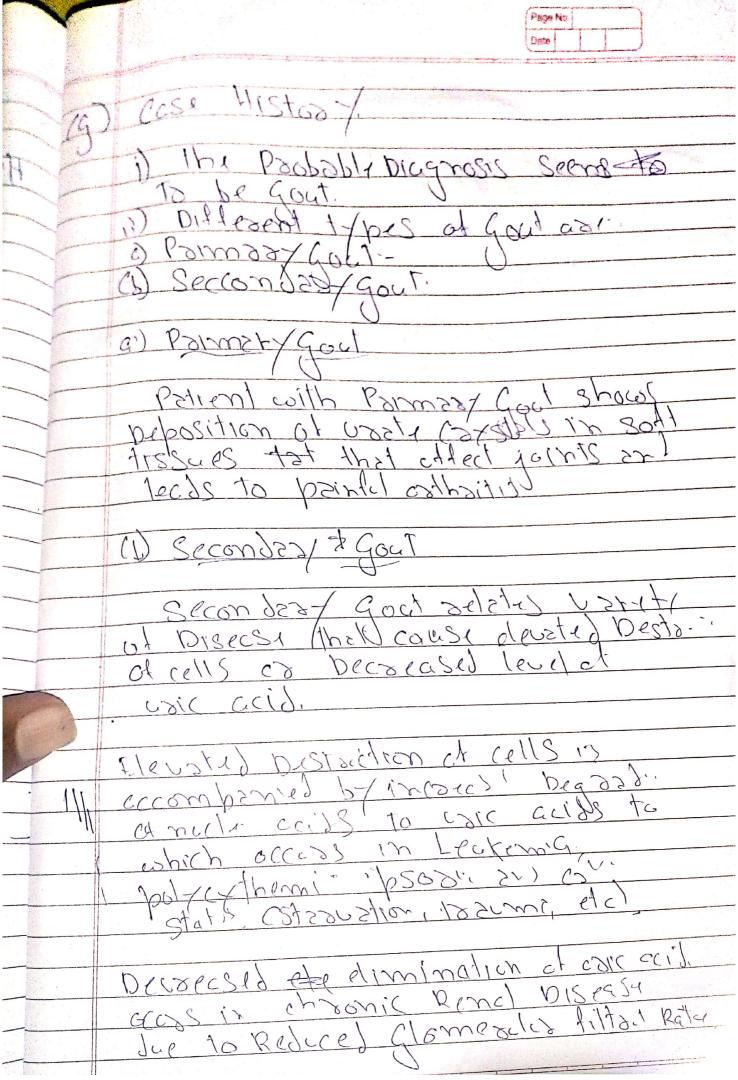


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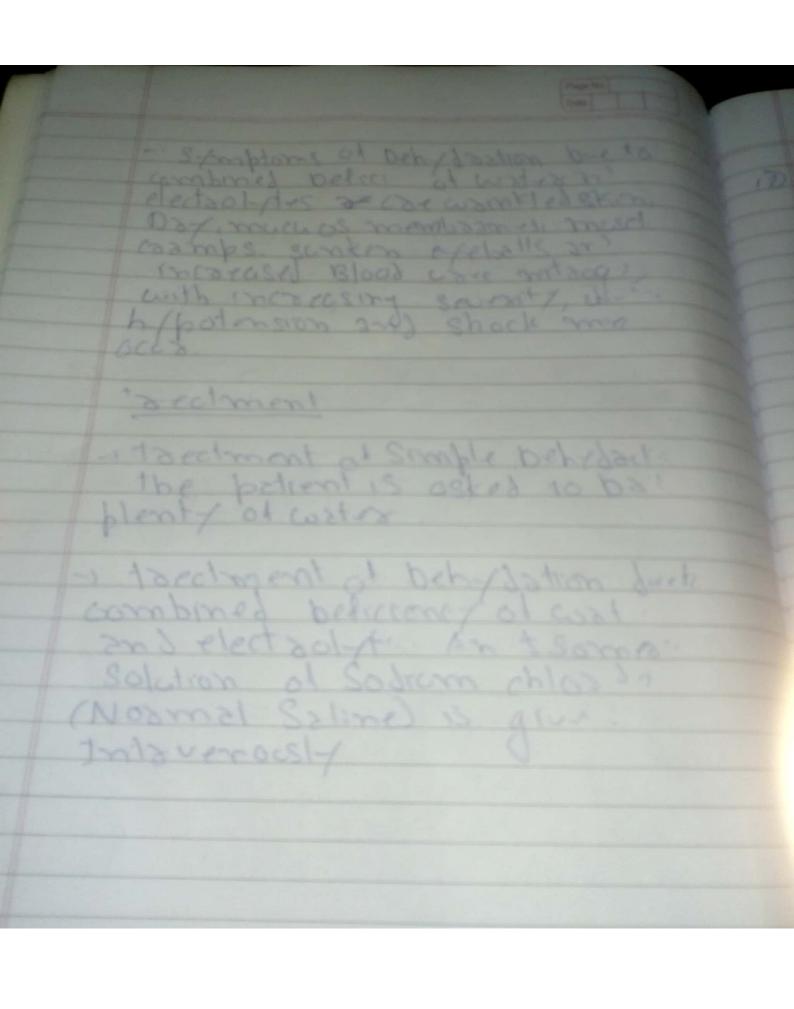
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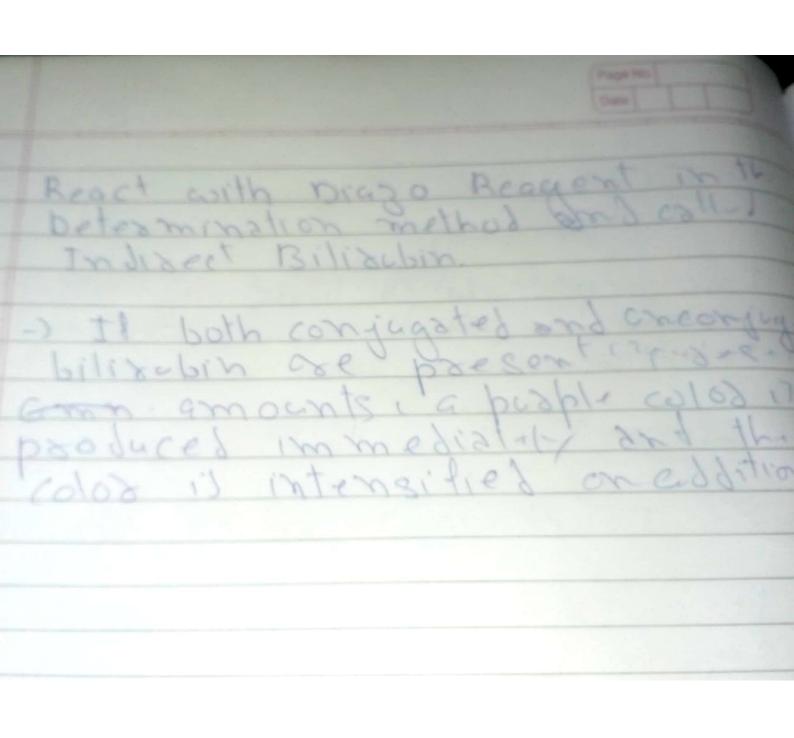


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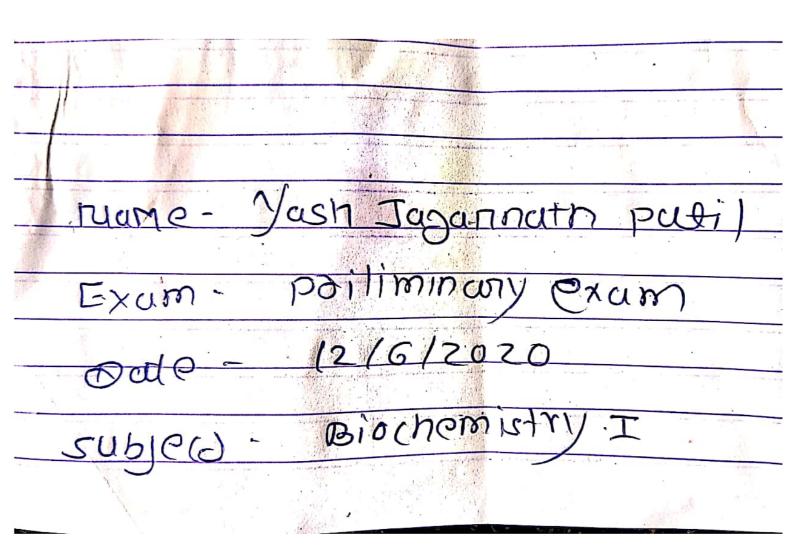
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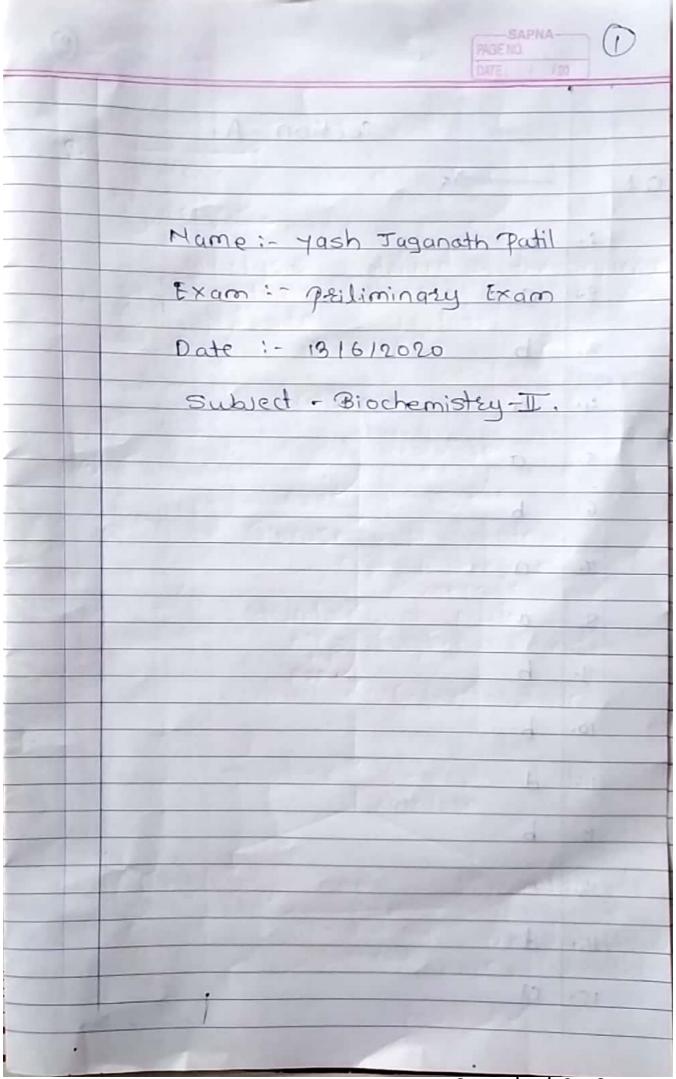
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	Q.	utine.
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7.	17	Synthesis of carbamoyl phosphate:
	-	carbamoul phosphate synthase I of
		mitochondria catalyses the condensation
		of MHI ions with cos to form
		carbomoyl phosphate.
- 45	M.R	there was a series of the seri
2-3		This step consumes two ATP and is
	-	iffeversible and eate-limiting
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	_	CPSI requises N-acety/glutamate for
	3.0	its activity.
-		adidhaso s
2	3	formation of citalline?
	-	citabline is synthesized from
	N.	citabline is synthesized from carbamoyl phosphate and ornithine
	luk	by ornithine transcarbamoglase.
	21,	Denithine pris regenerated and used
	$\dashv$	in usea cycle.
		Taning aninipad
	-	Therefore, its role is comparable to
	-	that of oxaloacetate in cité a cid
	_	cycle
	-	
013	*	Synthesis of agginosuccinate:
	_	Arginosuccinate synthase condenses
51457	CHI)	citeralline with aspartate to Produce
1400	01	orginasuccinate.
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	1	The second amino acid group of usea
bour		is incorporated in this zeaction.
		mes sol emobile at between

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	4)	cleavage of azylnosuccinate:-
	/	And Andrew Charles associated
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	-1	to give orginine and furnarate.  Arginine is the immediate Pracursor
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		were all the state of the state
	12	Formation of usea :-
		Agginase is the fifth and final enzyme
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		Agginase is mostly found in the lives.
		while the rest of the enzymes
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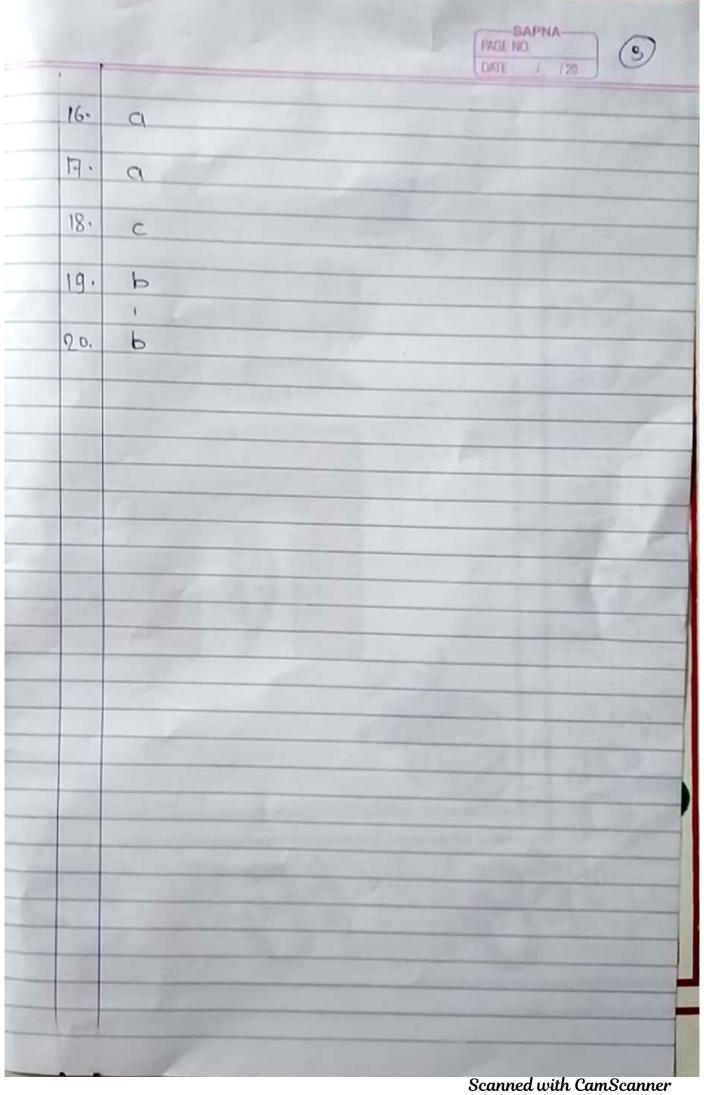
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		ROA :	
		Vitamin D is 400 international	1/
	-	Vitamin 0 is 1400 international	(:
		Units or 10 mg of cholecalciferol.	12
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		In counteres with good sunlight	1
		the RDA for vitumin D is 200 10	-
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		hat part naice all mileans	+
		good sources of vitamin Disducte	t
		fatty fish, fish lives oils, egg york etc.	
		Mill is not a good sources of	
		Vitamin D.	1
	10	mit and a min ortalization of	1
	20	Vitamin D. can be provided to the	
. a ii	92	body in three ways.	
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	1,	Exposure of skin to sunlight for synthesis of vitamin D.	
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	921	por at the control for interest	
	2.	consumption of Natural foods.	
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	<u>3</u>	By iseadiating toods that contain precuesoes of vitamin D and fostification of foods.	
	- 6	precuesoes of Vitamin D and	
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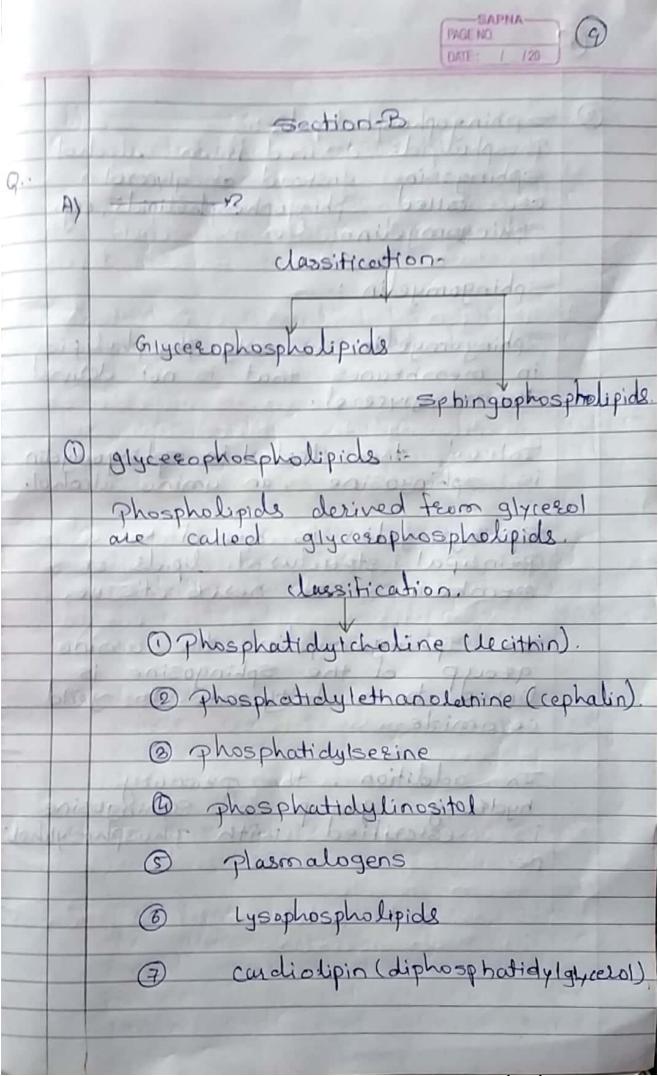
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	the second of the property and the second of
	Deficiency Manifestation:
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	Deficiency of vitamin D causes zickets
	in geowing children and osteomalacia
	in adults.
	Rickets 8-1 10 1000 1000
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150	dictets is characterized by formation
	of soft and pliable bones due to
	deficiency.
ć iti	action with the surface of the surfa
	Due to 50/tness, the weight bearing
	bones are bent and deformed.
1 75 8	aid ben areasol, in emil stil up a
	ostermalacias :
	The deficiency of vitamin D in adults
	causes ostermalações man de la companya de la compa
	This is a condition similar to that
	of reickets
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	Osteomalacia characterized by demineral
	zation of previously formed bones,
	Demineralization of bones makes
	them soft and susceptible to
	fradusos.
	Renal Rickets :
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1	in kidney is impaired.
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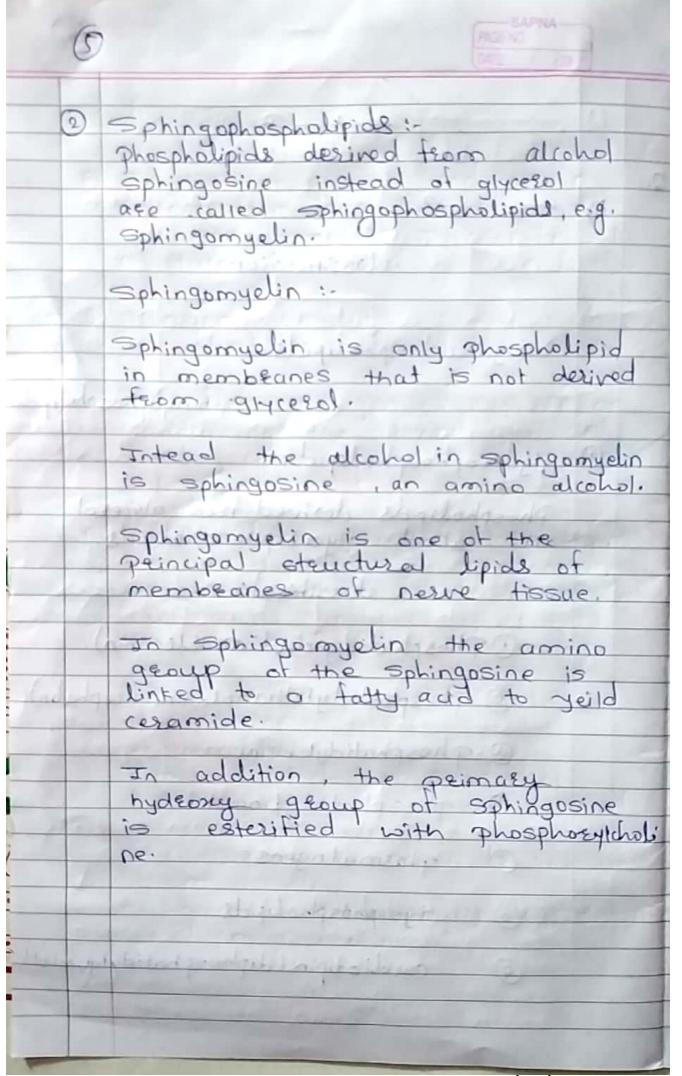
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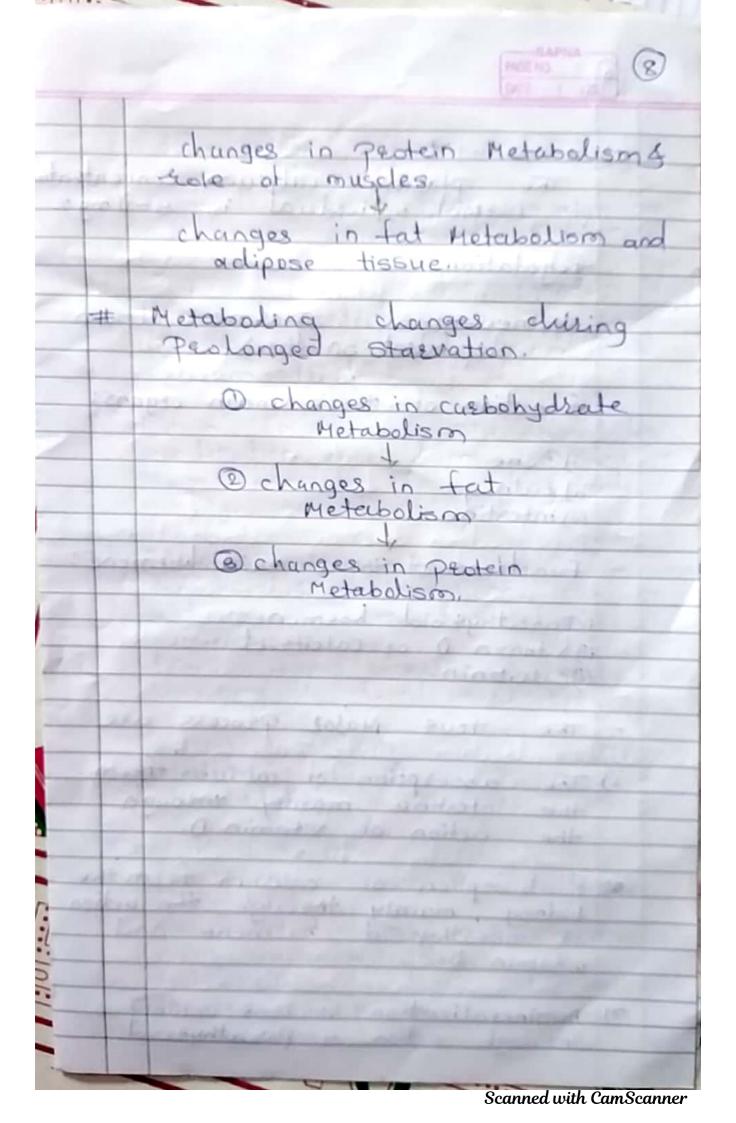
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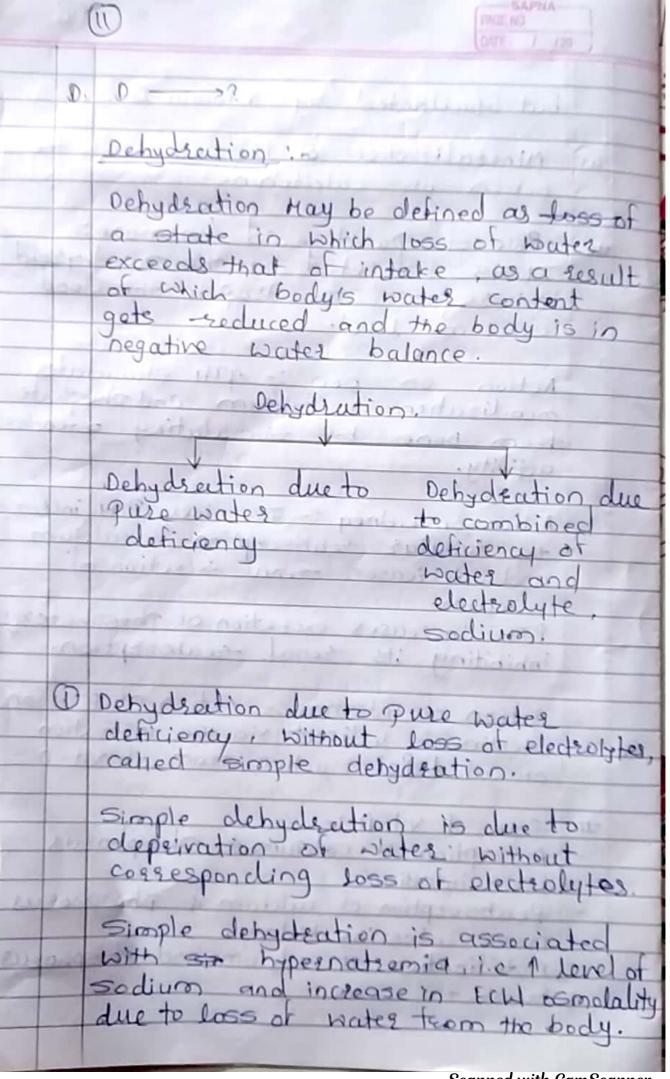




	(UALC: 7: 720 )
b)	Metabolic changes:
74	The first phase of starvation begins four to five hours after a meal.
sapatyle	within about + he after a meal broad glucose levels begin to fall.
6	consequently insulin levels decline and glucagon epinepheine levels rise
	The beain the erytheocytes, the bone massow, the renal medulla and peripheral nerves have to be supplied with glucose, for their energy needs.
	muscle can readily use free fatty acids, released trom adipose tissue.
6)	In this phase, the main source of brood glucose is liver glycogen.
7)	The liver first uses glycogenolysis the gluconeogenesis to mountain blood glucose levels and provide sufficient glucose to the brain and other glucose requiring



but facilitated by Vitamin D. 4. Mineralization of bone through the action of calcitonin. -Role of pasathyroid hormone: It is secreted by the paredly spid in response to drop in the bloo calcium level. Action on bon: - pTH stimulates mobilization of calcium and phosphate from bone by stimulating osteoclast activity. Action on kidney: - In tidney PTH increased and decreases -senal exception of calcium. PTH increases exception of phosphate by inhibiting its tena -reabsosption. Action on Intestine: - Action of PTH on intestine is indirect via the formation of calcitated, active from of vit. D. # Role of VitaD: - Absorption of calcium & phosphoeus from intestine feabsosption of calcium & phosphosius from intestine kidney. Mobilization of calcium and Phosphosis from the bone.

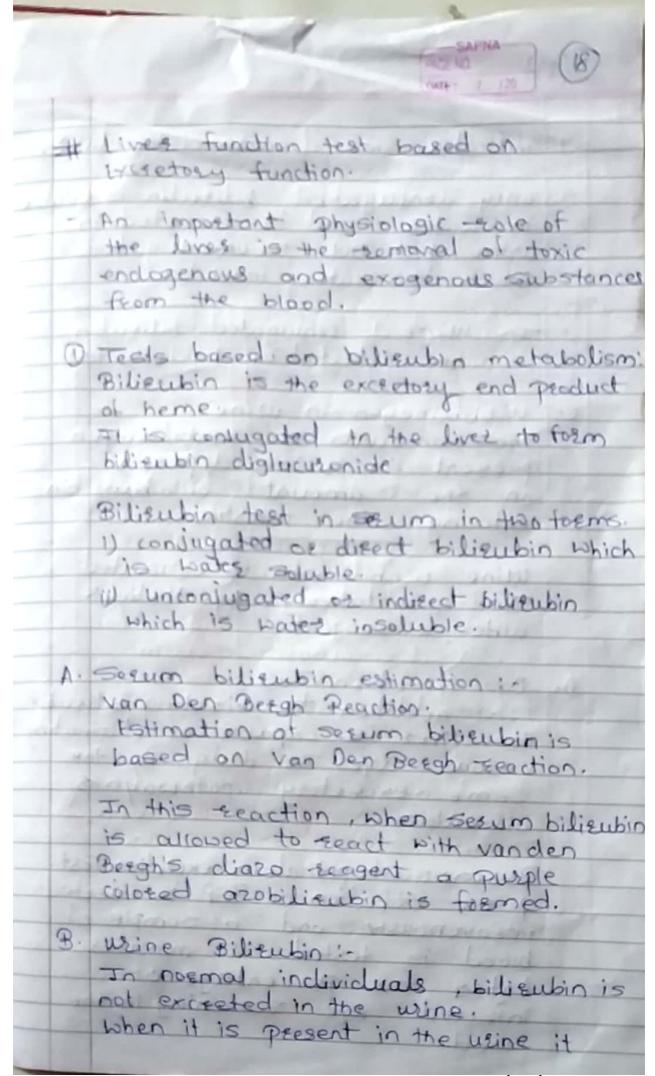


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-	A "besidge," across the top of the dividing wall holds a memberane of other support material so that each end of it is in contact with the buffer in one of the compartment.
-	tiest memberine is immersed in buffer, brotted and placed in the chamber and then sample is applied.
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	glucoseaminoghicans:
	It is found in the:  Synovial fluid of Joints  Vitreous humor of the eye.  Arterial walls.  Bones  Cartilagen in
	functions :-
i)	They are major components of the extracellular matrix or ground substance
	GAG carry suitate and carboxyl groups which give them a negative charge and have special ability to bind large amounts of water. Thereby producing a get-like matrix which functions as a throughion against mechanical shocks.
[ Fii)	They act as "molecular sieves".  determining which substances enter  and leave cells.
iv)	They also give resilience to custilage, premitting compression and re-responsion.

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v. They substitute Joints both at the Susface of costiloge and in synovial fluid.
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n. The viscous lubricating properties
due to the presence of fireward
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- Degratar suitate
- Hépatin Sulphate.
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geoups and their positions.
to which they are attached.
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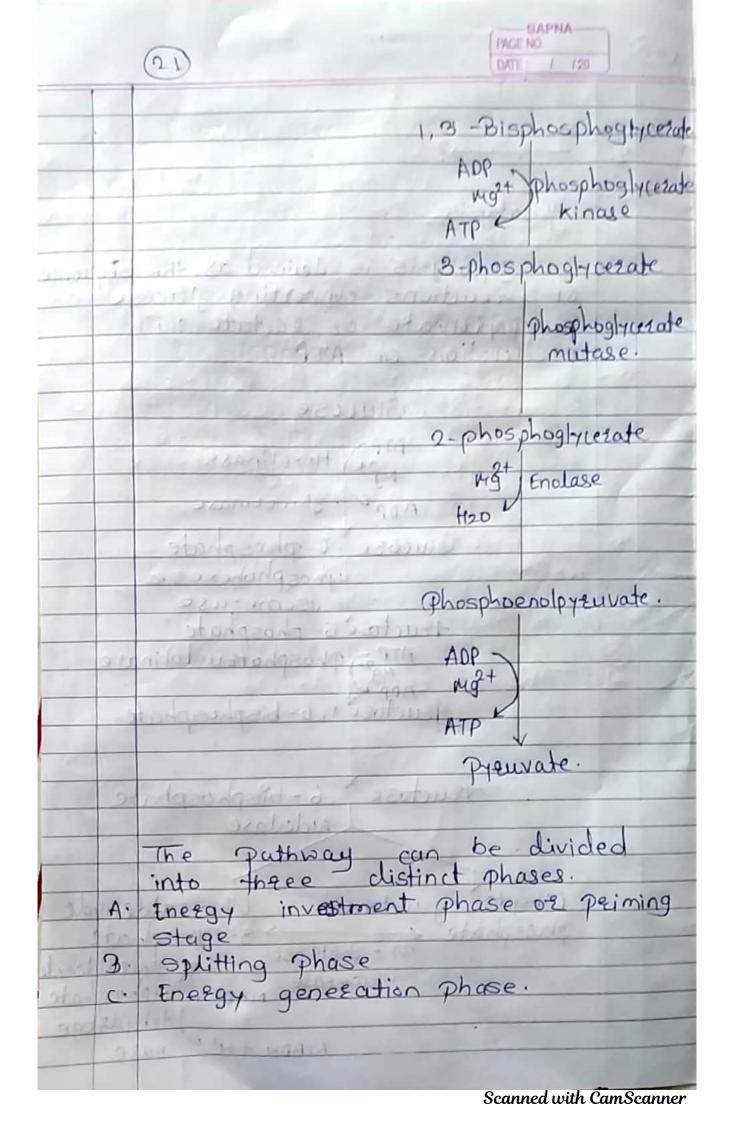
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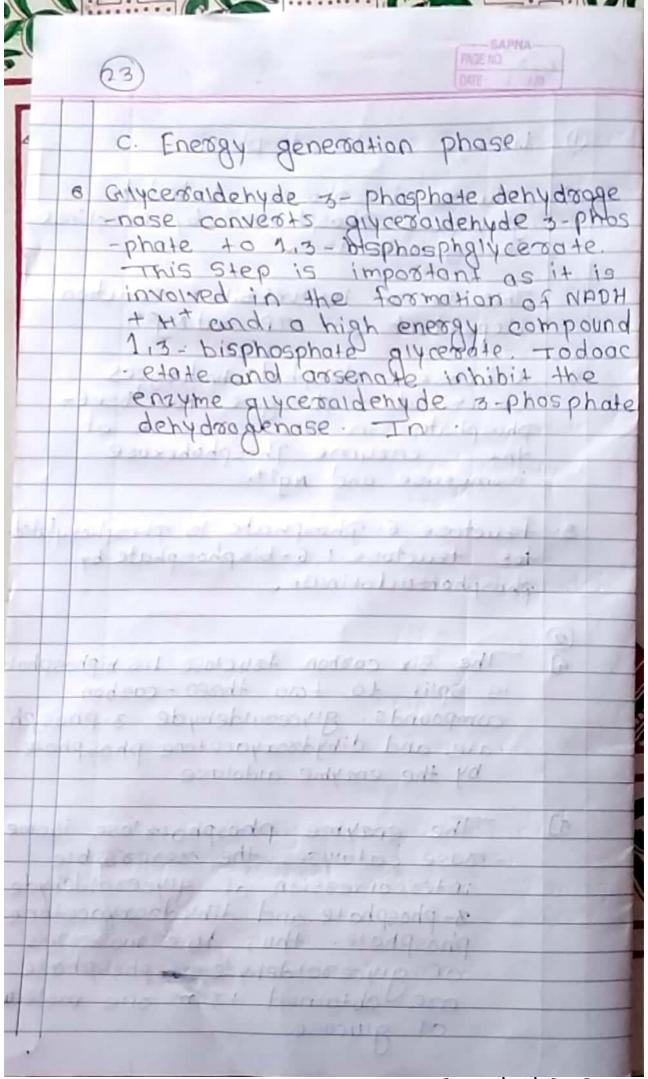
indicales some disease of the liver. in water and is excreted in wine but not the unconjugated Which is water insoluble. - In wine ; conjugated bilieubin can be detected by fouchet's test. The amount of usobilinogen on the amount of bilisubin entering the intestine wine unbilingen is estimated a proj quantitatively , by Ehstich's albehyde reagent. D. Dye travetion testing bilisubin the liver is capable of eliminating Various depes of drugs by the same exceptory pathway as A sx solution of BSP is injected intervenously and a sample of blood is tested as minutes later for percentage of injected due remaining in the blood.

(40) glycolysis is defined as the sequence reactions converting glucose pyenvate or lactate with OF ATP. Glucose Hexokinase ADP glucokinase Glucose Phosphohexose teuctose 6- phosphate ATP phosphotzuctokinase feuctose 1, 6-bisphosphate. Fructose , 6 - bisphosphate Aldolase Dihydronyacetone phosphate Phosphoteiose Sometase NAD+ NB-phosphate dehydroge NAOH +H+V nase

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## Dr. Vasantrao Pawar Medical College, Nashik Department of Biochemistry

## Compensatory Mid Terminal Exam 1st MBBS - 2018-19

Date: 24/04/2019

Time: 9:30 am to 10 am (Marks: 12+48)

Instruction: - 1. Every question carries 1/2 Marks.

2. Avoid overwriting or striking of answer once written.

3. MCQ answer sheet will be collected exactly after 30 Min.

### Section -A

Q.1 Multiple choi	ce questions.
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Q.1 N	Aultiple choice questions.	
1) Th	e glycosaminoglycan which serves as an	anticoagulant is :-
	a) Heparin	b) Hyaluronic acid
	c) Chondroitin sulphate	d) Dermatan sulphate
2)	$(\alpha_1 \rightarrow \beta_2)$ Glycosidic bond is present i	in :
	a) Maltose	b) Lactose
	c) Sucrose	d) Glycogen
3)	The lipoprotein which carries dietary to	riglycerides from intestines to the liver is :-
	a) Chylomicrons	b) VLDL
	c) LDL	d) HDL
4)	Respiratory distress syndrome (RDS) i	s caused by defect in synthesis of :-
	a) Phosphatidyl ethanolamine	b) Phosphatidyl serine
	c) Dipalmitoyl lecithin	d) Phosphatidyl inositol
5)	All of the following are methods of pla	sma protein seperation, EXCEPT :-
	a) Salting out	b) Cohn's fractionation
	c) Chromatography	d) Electrophoresis
6)	Ketogenic amino acid is:-	
	a) Glycine	b) Histidine
	c) Leucine	d) Methionine
7)	Bence Jones proteins are excreted in :-	
	a) Nephrotic syndrome	b) Multiple myeloma
	c) Nephritis	d) Liver cirrhosis
8)	One of the following proteins is NOT p	present in serum :-
	a) Albumin	b) Prothrombin
	c) $\alpha_1$ antitrypsin	d) Ceruloplasmin
9)	Immunoglobulin that crosses the placer	nta is :-
	a) Ig A	b) Ig M
	c) Ig G	d) Ig D
10	The earliest biomarker to increase in se	rum after myocardial infarction is:-
1	a) Lactate Dehydrogenase	b) Creatine kinase-2
	c) Alanine Transaminase	d) Aspartate Transaminase

11) Diagnostic enzyme for hepatitis is:-		
a) Lipase	b) Amylase	
c) Alanine transaminase	d) Acid phosphatase	
12) The DNA strands are held together		
a) Phosphodiester bond	b) Hydrogen bond	
c) Glycosidic bond	d) Van der Waals forces	
13) Following are the examples of high	energy compounds, EXCEPT :-	
a) ATP	b) Phosphoenol pyruvate	
c) Creatine Phosphate	d) AMP	
14) Naturally occurring uncoupler is :-	and a Philippoland	
a) Dicumarol	b) 2, 4 Dinitrophenol	
c) Thermogenin	d) Dinitrocresol	
15) Which one of the following vitamins	have antioxidant property?	
a) Vitamin K	b) Riboflavin	
c) Tocopherol	d) Cholecalciferol	
c) rocopheror	a) charter	
16) Deficiency of intrinsic factor of Cast	le leads to :-	
a) Iron deficiency anaemia	b) Pernicious anaemia	
c) Macrocytic anaemia	d) Microcytic anaemia	
17) Biotin is involved in :-	b) Carboxylation	
a) Oxidation-Reduction	d) Dehydration	
c) Decarboxylation	d) Dellydration	
18) Pantothenic acid forms a coenzyme w	hich is :-	
a) PLP	b) Cobamide	
c) Coenzyme A	d) Coenzyme Q	
town it was to 65 and amain along	halias is assessed by the deficiency of	
19) Wernicke Korsakoff syndrome in alco		
a) Niacin	b) Retinol d) Riboflavin	
c) Thiamine	d) Kiboliavin	
20) The functionally active form of vitami	n D is :-	
a) Cholecalciferol	b) Ergocalciferol	
c) Dehydrocholesterol	d) Calcitriol	
	Cresco de Luciano de Caración	
21) All of the following vitamins have anti		
a) Carotene	b) Ascorbic acid	
c) Tocopherol	d) Cholecalciferol	
22) The form of vitamin A present in rhodo	opsin is :-	
a) All trans retinol	b) 11-cis retinol	
c) All trans retinal	d) 11-cis retinal	
	d) 11 vio ivilia	
23) The defective enzyme in Alkaptonuria	is:-	
a) Tyrosinase	b) Tyrosine transaminase	
c) Phenylalanine hydroxylase	d) Homogentisate oxidase	
24) The amino said required for such	et	
<ol> <li>The amino acid required for synthesis o</li> <li>a) Lysine</li> </ol>		
c) Glutamine	b) Glycine	
C) Oldannie	d) Glutamic acid	

## Dr. Vasantrao Pawar Medical College, Nashik Department of Biochemistry

Compensatory Mid Terminal Exam 1st MBBS - 2018-19

Date: 24/04/2019

Time:09:30 to 12:30 pm

(Marks: 12 + 48)

### Section - B

## Q.2. Short answer questions (Any six)

 $(6 \times 4 = 24)$ 

- a) What are heteropolysaccharides? Describe their functions with examples.
- b) Structure and functions of RNA.
- c) Diagnostic significance of enzymes.
- d) Co Enzymes
- e) Essential fatty acids.
- f) A 15 year old boy presented with acute abdominal pain in emergency. His investigations showed Hb 9.1gm% and presence of sickle shaped RBCs on blood smear.
  - 1) Name the clinical condition.
  - 2) Mention the molecular defect involved.
  - 3) Explain the biochemical basis of the sickling of RBCs.
  - 4) Name the other lab investigation to confirm the diagnosis.
- g) Phospholipids.

### Section - C

## Q.3 Long answer questions (Any three)

 $(3 \times 8 = 24)$ 

- 1) Define and Classify vitamins. Describe Vitamin D under following headings.
  - -- Biochemical functions, Deficiency manifestations, RDA & Sources.
- 2) Formation and fate of ammonia. Add a note on congenital metabolic disorders of urea cycle.
- 3) Define enzyme classify them with examples. Add a note on competitive type of enzyme inhibition.
- 4) Describe ETC in detail. Add a note on sites on ATP synthesis & inhibiters of ETC.

### Dr. Vasantrao Pawar Medical College, Hospital and Research Centre Adgaon Nashik Department of Biochemistry

Mark list of Compensatory Terminal Examination (Theory) 2018 -2019

Roll no.	Name of the Students	Q. A 12	Q. B 24	Q. C 24	TOTAL 60
24	DEVAKATE MANASI ANANDRAO	9.5	15.5	14	39
47	JAIN SHRISHTI ASHOK KUMAR	8.5	13	14	35.5

HOD

Department of Biochemistry

Professor & Head
Department of Biochemistry
M.V.P.S. Dr.Vasantrao Pawar
Medical College, Hospital & RC,
Adgaon, Nashik-422 003

## Dr. Vasantrao Pawar Medical College, Hospital and Research Centre Adgaon N Department of Biochemistry

Mark list of Compensatory Terminal Examination (Practical) 2018 -2019 Dated on 24/04/2018

Roll no.	Name of the Students	Q. A 20	Q. B 15	Q. C 5	TOTAL 40
47	JAIN SHRISHTI ASHOK KUMAR	13	10	5	28

HOD

Department of Biochemistr

Professor & Head
Department of Biochemistry
M.V.P.S. Dr.Vasantrao Pawar
Medical College, Hospital & RC.
Adgaon, Nashik-422 003

# Dr. Vasantrao Pawar Medical College, Nashik Department of Biochemistry

Compensatory Mid terminal Exam MBBS - 2016-17

Date: 07 /04/2017

Time: 10 to 1 (Marks: 12+ 48)

Instruction: - 1. Every question carries 1/2 Marks.

2. Avoid overwriting or striking of answer once written.3. MCQ answer sheet will be collected exactly after 30 Min.

### Section -A

Q.	1 Multiple choice questions.	
1)	The glycosaminoglycan which serves as an anti	coagulant is :-
	a) Heparin	b) Hyaluronic acid
	c) Chondroitin sulphate	d) Dermatan sulphate
2)	$(\alpha_1 \rightarrow \beta_2)$ Glycosidic bond is present in :	
	a) Maltose	b) Lactose
	c) Sucrose	d) Glycogen
3)	The lipoprotein which carries dietary triglycerid	as from intestings to the liver is
,	a) Chylomicrons	b) VLDL
	c) LDL	
	7,222	d) HDL
4)	Respiratory distress syndrome (RDS) is caused	by defect in synthesis of
	a) Phosphatidyl ethanolamine	b) Phosphatidyl serine
	c) Dipalmitoyl lecithin	d) Phosphatidyl inositol
	e, parametry recraims	d) i nosphatidyi mositoi
5)	All of the following are methods of plasma proto	ein seperation EXCEPT :-
	a) Salting out	b) Cohn's fractionation
	c) Chromatography	d) Electrophoresis
		,
6)	Ketogenic amino acid is:-	
	a) Glycine	b) Histidine
	c) Leucine	d) Methionine
7)	Bence Jones proteins are excreted in :-	
	a) Nephrotic syndrome	b) Multiple myeloma
	c) Nephritis	d) Liver cirrhosis
8)	One of the following proteins is NOT present in	CATIM
,	a) Albumin	b) Prothrombin
	c) $\alpha_1$ antitrypsin	
	o) al antitry point	d) Ceruloplasmin
9)	Immunoglobulin that crosses the placenta is :-	
	a) Ig A	b) Ig M
	c) Ig G	d) Ig D
10)	The earliest biomarker to increase in serum after	myocardial infaration in
	a) Lactate Dehydrogenase	b) Creatine kinase-2
	c) Alanine Transaminase	d) Aspartate Transaminase
		-/

11) Diagnostic enzyme for nepatitis is:-	
a) Lipase	b) Amylase
c) Alanine transaminase	d) Acid phosphatase
12) The DNA strands are held together by :-	
a) Phosphodiester bond	b) Hydrogen bond
c) Glycosidic bond	d) Van der Waals forces
c) diveositie cond	
13) Following are the examples of high energy	compounds, EXCEPT :-
	b) Phosphoenol pyruvate
a) ATP	d) AMP
c) Creatine Phosphate	d) Aivii
14) Naturally occurring uncoupler is :-	b) 2, 4 Dinitrophenol
a) Dicumarol	d) Dinitrocresol
c) Thermogenin	d) Dillidocress:
	i'i'dent property?
15) Which one of the following vitamins have	antioxidant property:
a) Vitamin K	b) Riboliavili
c) Tocopherol	d) Cholecalciferol
16) Deficiency of intrinsic factor of Castle leads	s to :-
a) Iron deficiency anaemia	b) refinerous undermine
c) Macrocytic anaemia	d) Microcytic anaemia
c) Macrocy no man	
17) Biotin is involved in :-	
a) Oxidation-Reduction	b) Carboxylation
c) Decarboxylation	d) Dehydration
c) becarooxyranon	
18) Pantothenic acid forms a coenzyme which is	s:-
a) PLP	0) Coodings
c) Coenzyme A	d) Coenzyme Q
19) Wernicke Korsakoff syndrome in alcoholics	is caused by the deficiency of :-
19) Wernicke Korsakoff syndrome in in	b) Retinol
a) Niacin	d) Riboflavin
c) Thiamine	
from of vitamin D is	
20) The functionally active form of vitamin D is	b) Ergocalciferol
a) Cholecalciferol	d) Calcitriol
c) Dehydrocholesterol	u) Culture
	nt property EXCEPT'-
21) All of the following vitamins have antioxida	b) Ascorbic acid
a) Carotene	d) Cholecalciferol
c) Tocopherol	d) Cholecalcheror
22) The form of vitamin A present in rhodopsin	is:-
a) All trans retinol	U) 11-cis retires
c) All trans retinal	d) 11-cis retinal
23) Scarvy is due to deficiency of which one of	the following vitamin. :-
23) Scarvy is due to deficiency of which say	
a) Vitamin A	d) Vitamin C
c) Vitamin K	
, to design of har	me is :-
24) The amino acid required for synthesis of her	b) Glycine
a) Lysine	d) Glutamic acid
c) Glutamine	u) Gramme assa

## Dr. Vasantrao Pawar Medical College, Nashik Department of Biochemistry

Supplementary Terminal Exam 1st MBBS - 2016-17

Date: 07/04/2017

Time: 10:00 to 1:00 pm (Marks: 12 + 48)

### Section - B

O.2. Answer the following short questions (Any six)

(6x4 = 24)

- a) Essential fatty acids
- b) Hetropolysaccharides.
- c) tRNA
- d) Iso enzymes & their diagnostic significance.
- e) Rickets
- f) ETC
- g) Functional classification of plasma protein.

## Section - C

Q.3 Answer the following long questions

(Any three)

 $(3 \times 8 = 24)$ 

- A) Define and Classify vitamins. Describe Vitamin A under following headings.
  - -- Biochemical functions, Deficiency manifestations, RDA & Sources.
- B) Define & describe TCA. Explain amphoteric nature of TCA cycle. Add note on energetic.
- C) Define Enzyme. Describe factors affecting enzyme activity. Add note on competitive enzyme inhibition with examples.
- D) Define Phospholipids. Describe classification phospholipids with examples. Add a note on functions of phospholipids.

### M.V.P.S.Dr.Vasantrao Pawar Medical College Adgaon Nashik

### **Department of Biochemistry**

### Mark list of Compensatory Terminal Examination (Theory) 2016 -2017

Roll no.	Name of the Students	Q. A 12	Q. B 24	Q. C 24	TOTAL 60	Sign.
2	AGRAWAL AASTHA MUKESH	6.5	16	18	40.5	
105	SHINDE MANALI MADHUKAR	8.5	12	18	38.5	
115	THAKUR MAHIMA MANOJ	10.5	18	15	43.5	

HOD

Professor & Head
Department of Biochemistry
M.V.P.S. Dr.Vasantran Pagent
Medical College, Hospital & M.,
Adgaon, Nashikar 2003

## M.V.P.S.Dr.Vasantrao Pawar Medical College Adgaon Nashik

## **Department of Biochemistry**

### Mark list of Compensatory Terminal Examination (Practical) 2016 -2017

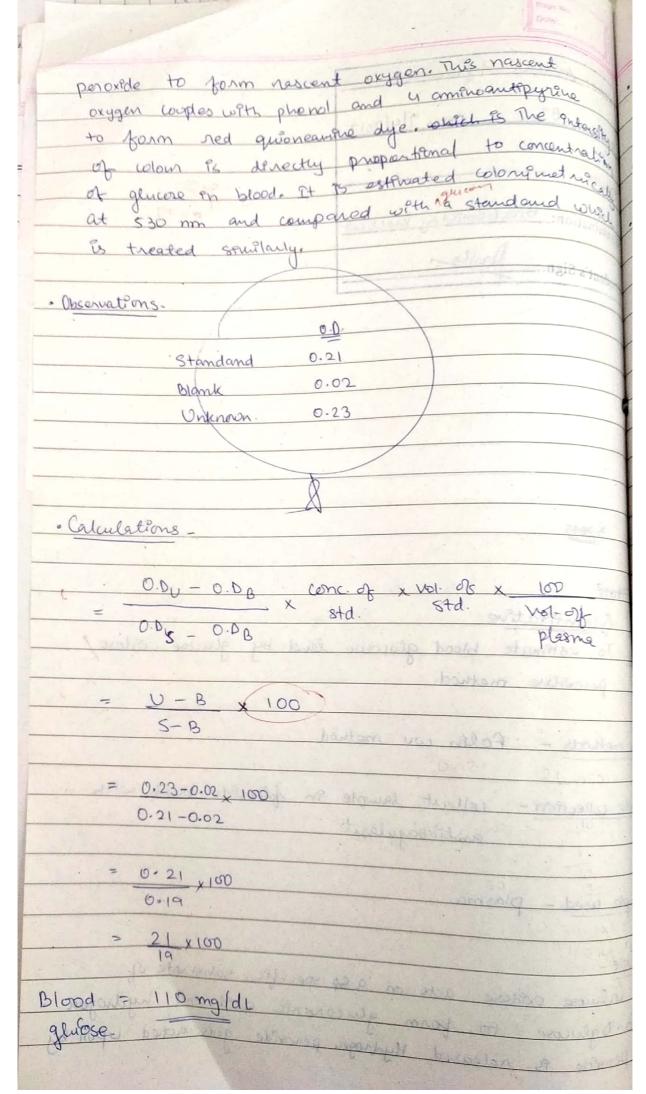
			15	5	40	Sign.
2 AG	RAWAL AASTHA MUKESH	15	11	5	31	
105 SHI	NDE MANALI MADHUKAR	12	10	3.5	25.5	

HOD

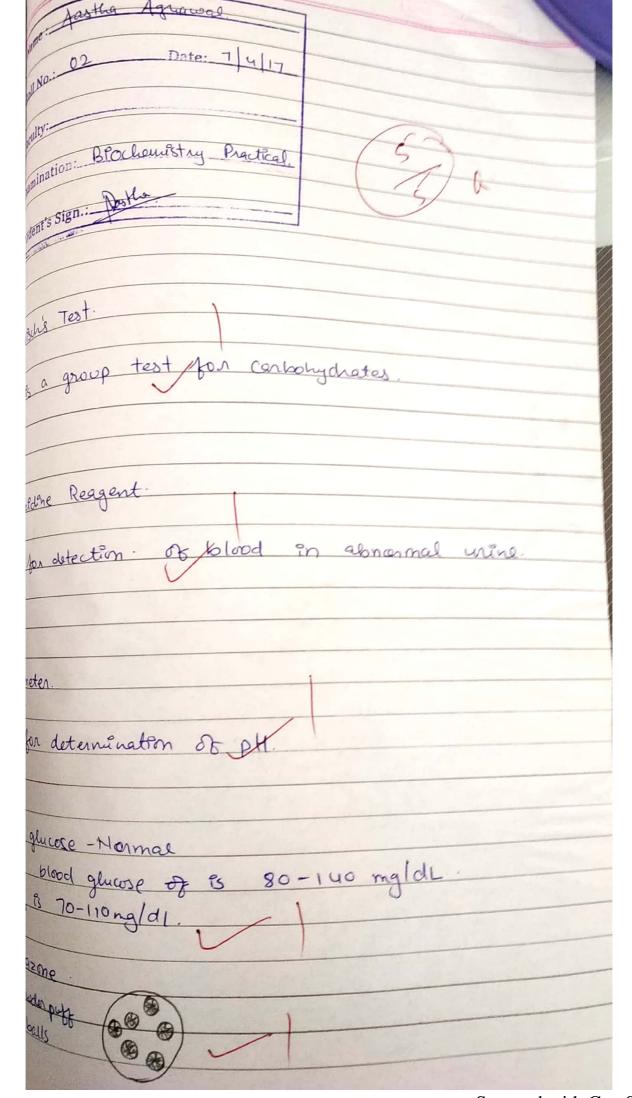
Department of Biochemistry

Professor & Head
Department of Biochemistry
M.V.P.S. Dr.Vasantrao Pawar
Medical College, Hospital & RC.
Adgaon, Nashik-422 003

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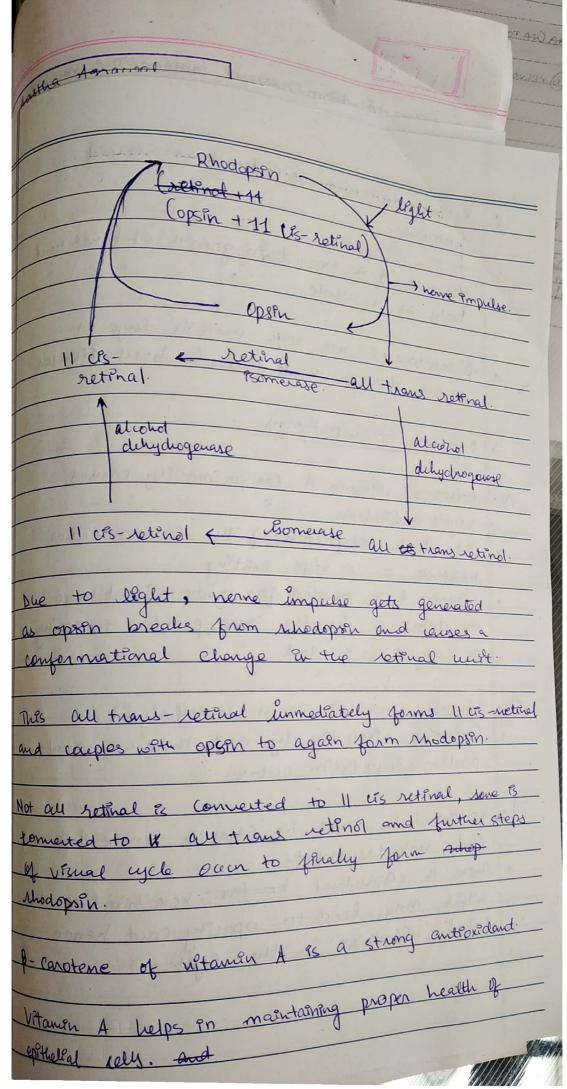
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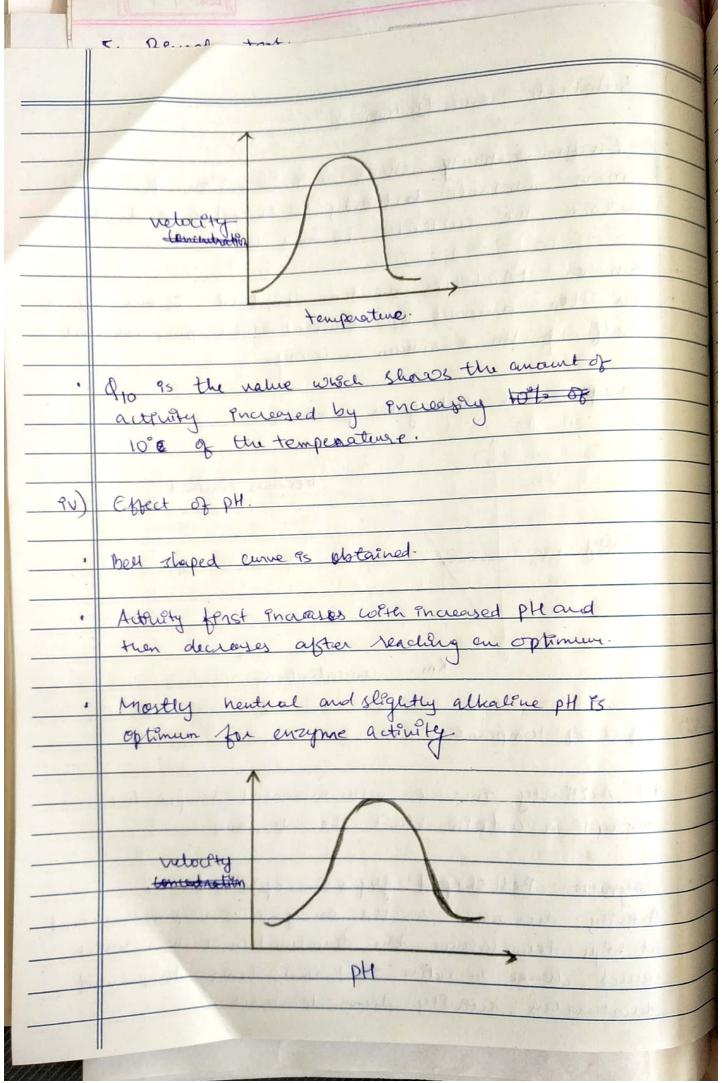


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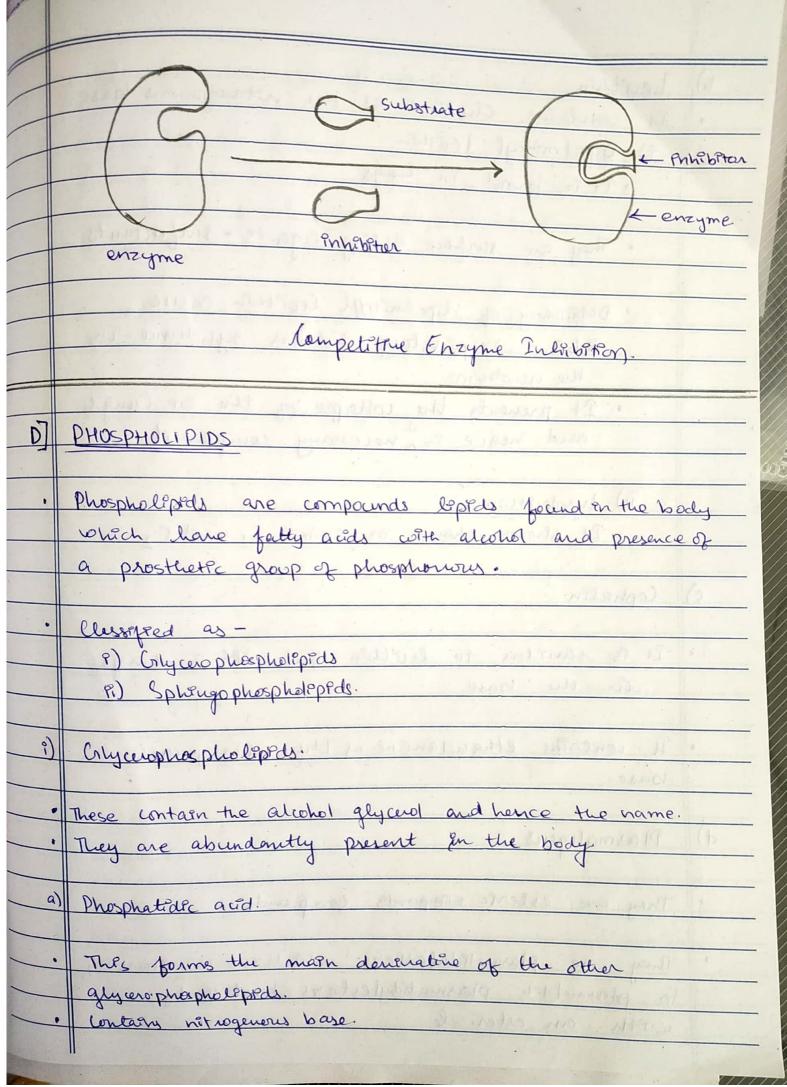
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(P)	Metal activations of the many of the many of the
	Marie
	Certain enzymes need metal for for their functioning.
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	If all other factors are constant, the said, reaction proceeds trast and loss time to
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9+ Fs a Structural analog of methans and dehydrogenere.
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	Some have antigenic property, which helps in defence to of body against foreign awagens and
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