

COURSE FILE - AY 2021-22

Pharm.D - I Year

Name of the course	Human Anatomy and Physiology
Course Code	17T00101
hours	4 hours per week
Paper	Theory (17T00101) Practical (17T00107)
Instructor	R.Jona Methusala
Academic Session	14 th Feb 2022 to 09 th Dec 2022

Check list:

S. No.	Description	Yes/NO
1	Details of course structure	Yes
2	Course Description	Yes
3	Course outcome	Yes
4	Course outcome and Program outcome matrix	Yes
5	Weekly Academic planner and Teaching plan	Yes
6	Recommended reference Books	Yes
7	Assessment tools, Rubrics and Scheme of examinations	Yes
8	Course outcome assessment	Yes
9	SWOC Analysis	Yes
10	Beyond syllabus /other enrichment activities	Yes
11	Overall remarks and improvement (compare with previous data)	Yes
12	Course exit survey Feedback	Yes
13	Recommendations for future action / Observations	Yes
14	Annexures	
	a. Attendance copy	✓
	b. Question papers of Midterms /class test	✓
	c. Model Answer scripts Best & Worst	✓
	d. Assignment /Seminar allotment	✓
	e. Model assignment/Seminar Best & Worst	✓
	f. Model Practical record book/manual	✓
	g. Any other assessment tools if any.	✓



Signature of the faculty


Principal

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Details of course structure

Name of the course	Human Anatomy and Physiology
Course Code	17T00101
Credits / h	4 hours per week
Paper	Theory (17T00101) Practical (17T00107)
Instructor	R.Jona Methusala
Academic Session	14 th Feb 2022 to 09 th Dec 2022

1. Course Description

This theory course provides a fundamental knowledge on the structure and functions of the human body. It also helps in understanding both homeostasis mechanisms and homeostatic imbalances of various body systems. It enhances the understanding of how the drugs act on the various body systems in correcting the disease state of the organs.

The practical courses deal with various tissues of the human body. Perform the hematological tests. Record blood pressure and simple muscle curve. Study of various systems of the human body.

Course outcome

At the end of the theory course, the student will be able to

C101.1	Define structure and functions of cell, various tissues, Skeleton, joints of the human body.
C101.2	Explain and describe the composition, function of various body fluids like blood and lymph, anatomy and physiology and parameters related to CVS and related disorders.
C101.3	Explain the anatomy and physiology and parameters related to Respiratory, Digestive, Nervous systems and related disorders.
C101.4	Explain the anatomy and physiology and parameters related to Urinary, Endocrine, Reproductive systems.
C101.5	Explain the anatomy of Sense organs, Skeletal muscles and parameters of sports physiology.

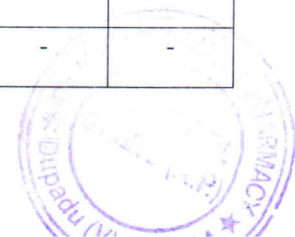
At the end of the practical course of experiments, the student will be able to

C107.1	Identify the various tissues of the human body.
C107.2	Perform the hematological tests.
C107.3	Record blood pressure and simple muscle curve.
C107.4	Study of various systems of the human body.

2. Course outcome and Program outcome matrix

Dept. of Pharmaceutical Analysis

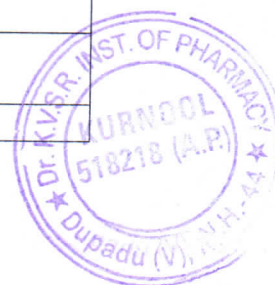
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
C101.1	3	-	-	-	-	-	-	-
C101.2	-	2	-	-	-	-	-	-
C101.3	3	-	-	-	-	-	-	-
	-	-	-	2	-	-	-	-



C101.4								
C101.5	-	2	1	-	-	-	-	-

3. Weekly Academic planner and Teaching plan for theory contents delivered

Week	Hours	Unit	Contents	hours consumed
Week 1	4 h	1	Scope of anatomy and physiology, basic terminologies used in this subject (Description of the body as such planes and terminologies) Structure of cell – its components and their functions. Elementary tissues of the human body: epithelial, connective, Muscular and nervous tissues-their sub-types and characteristics	4
Week 2	4 h	1	Osseous system - structure, composition and functions of the Skeleton. (done in practical classes - 6hrs) iii) Classification of joints, Types of movements of joints and disorders of joints (Definitions only)	4
Week 3	4 h	2	Haemopoetic System Composition and functions of blood Haemopoiesis and disorders of blood components (definition of disorder)	4
Week 4	4 h	2	Blood groups Clotting factors and mechanism Platelets and disorders of coagulation	4
Week 5	4 h	2	Lymph and lymphatic system, composition, formation and circulation. Spleen: structure and functions, Disorders	4
Week 6	4 h	2	Spleen: structure and functions, Disorders Disorders of lymphatic system (definition only)	5
Week 7	4 h	2	Anatomy and functions of heart	4
Week 8	4 h	2	Blood vessels and circulation (Pulmonary, coronary and systemic circulation)	4
Week 9	4 h	2	Electrocardiogram (ECG) Cardiac cycle and heart sounds	4
Week 10	4 h	2	Blood pressure – its maintenance and regulation Definition of the following disorders Hypertension, Hypotension, Arteriosclerosis, Atherosclerosis, Angina, Myocardial infarction, Congestive heart failure, Cardiac arrhythmias	4
Week 11	4 h	3	Anatomy of respiratory organs and functions	4
Week 12	4 h	3	Mechanism / physiology of respiration and regulation of respiration	4
Week 13	4 h	3	Transport of respiratory gases	4
Week 14	4 h	3	Respiratory volumes and capacities, and Definition of: Hypoxia, Asphyxia, Dybarism, Oxygen therapy and resuscitation	4
Week 15	4 h	3	Anatomy and physiology of GIT	4
Week	4 h	3	Anatomy and functions of accessory glands of GIT	4



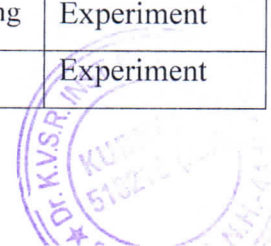
16				
Week 17	4 h	3	Digestion and absorption	4
Week 18	4 h	3	Disorders of GIT	4
Week 19	4 h	3	Definition and classification of nervous system	4
Week 20	4 h	3	Anatomy, physiology and functional areas of cerebrum, cerebellum	4
Week 21	4 h	3	Anatomy and physiology of midbrain Thalamus, Hypothalamus, Basal ganglia	4
Week 22	4 h	3	Spinal chord, cranial nerves, ANS.	4
Week 23	4 h	4	Anatomy and physiology of urinary system	4
Week 24	4 h	4	Formation of urine Renin Angiotensin system – Juxtaglomerular apparatus - acid base Balance	4
Week 25	4 h	4	Clearance tests and micturition	4
Week 26	4 h	4	Pituitary gland Adrenal gland	4
Week 27	4 h	4	Thyroid and Parathyroid glands Pancreas and gonads	4
Week 28	4 h	4	Male and female reproductive system	4
Week 29	4 h	4	Their hormones – Physiology of menstruation Spermatogenesis & Oogenesis	4
Week 30	4 h	4	Sex determination (genetic basis) Pregnancy and maintenance and parturition Contraceptive devices	4
Week 31	4 h	5	Sense organs Eye Ear	4
Week 32	4 h	5	Skin d) Tongue & Nose	4
Week 33	4 h	5	Skeletal muscles Histology Physiology of Muscle contraction	4
Week 34	4 h	5	Physiological properties of skeletal muscle and their disorders (definitions)	4
Week 35	4 h	5	Sports physiology Muscles in exercise, Effect of athletic training on muscles and muscle performance	4
Week 36	4 h	5	Respiration in exercise, CVS in exercise, Body heat in exercise, Body fluids and salts in exercise	4
Week 37	4 h	5	Drugs and athletics	4

Weekly Academic planner and Title of the experiments conducted

Week	Duration	Description of Activity (Experiments)	Type
1	3h	Epithelial tissue.	Experiment



2	3h	Muscular tissue.	Experiment
3	3h	Connective tissue	Experiment
4	3h	Nervous tissue	Experiment
5	3h	Study of appliances used in hematological experiments	Experiment
6	3h	Determination of W.B.C. count of blood	Experiment
7	3h	Determination of R.B.C. count of blood	Experiment
8	3h	Determination of differential count of blood	Experiment
9	3h	Determination of ESR	PBL approach
10	3h	Determination of Hemoglobin content of Blood	Experiment
11	3h	Determination of Bleeding time and Clotting time	Experiment
12	3h	Determination of Blood pressure	Experiment
13	3h	Determination of Blood group	Experiment
14	3h	Skeleton system part I-axial skeleton	Experiment
15	3h	Skeleton system part II- appendicular skeleton.	Experiment
16	3h	Cardiovascular system.	Experiment
17	3h	Respiratory system.	Experiment
18	3h	Digestive system.	Experiment
19	3h	Urinary system.	Experiment
20	3h	Nervous system.	Experiment
21	3h	Special senses.	Experiment
22	3h	Reproductive system.	Experiment
23	3h	Study of different family planning appliances.	Experiment
24	3h	To perform pregnancy diagnosis test	Experiment
25	3h	Study of appliances used in experimental physiology	Experiment
26	3h	To record simple muscle curve using gastrocnemius sciatic nerve preparation	Experiment
27	3h	To record simple summation curve using gastrocnemius sciatic nerve preparation	Experiment
28	3h	To record simple effect of temperature using gastrocnemius sciatic nerve preparation	Experiment
29	3h	To record simple effect of load & after load using gastrocnemius sciatic nerve preparation	Experiment
30	3h	To record simple fatigue curve using gastrocnemius sciatic nerve preparation	Experiment
31	3h	Revision of Study of appliances used in experimental physiology	Experiment
32	3h	Revision of To record simple muscle curve using gastrocnemius sciatic nerve preparation	Experiment
33	3h	Revision of To record simple summation curve using gastrocnemius sciatic nerve preparation	Experiment
34	3h	Revision of To record simple effect of temperature using gastrocnemius sciatic nerve preparation	Experiment
35	3h	Revision of To record simple effect of load & after load using gastrocnemius sciatic nerve preparation	Experiment
36	3h	Revision of To record simple fatigue curve using gastrocnemius sciatic nerve preparation	Experiment



37	3h	Record correction	Experiment
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4. Recommended reference Books

Reference books

Guytonarthur, C. Physiology of human body. Publisher: Holtsaunders.

Chatterjee,C.C. Human physiology. Volume I&II. Publisher: medical allied agency, Calcutta.

Peter L. Williams, Roger Warwick, Mary Dyson and Lawrence, H.

Ranade VG, Text book of practical physiology, Latest edition, Publisher: PVG, Pune Anderson
Experimental Physiology, Latest edition, Publisher: NA

5. Assessment tools, Rubrics and Scheme of examinations

5.1 Continuous assessment Rubrics

Program & Branch: Pharm.D - **HUMAN ANATOMY & PHYSIOLOGY**

Practical						
Day to Day Assessment (10M)					Exam	TOTAL
Att. (2)	Obs. (2)	Rec (2)	Skill (2)	Inter. (2)	20M	30 M

5.2 Final Scheme of Internal Examination and End Examinations (Model) – Common to all Branches

S.No	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals		
		Examination	Sessional	Total	Examination	Sessional	Total
1	Human Anatomy and Physiology	70	30	100	70	30	100

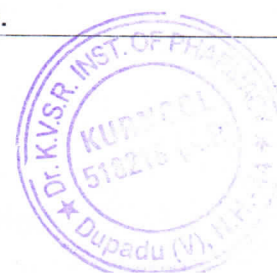
6. Course outcome assessment

Theory Course

C101.1	Define structure and functions of cell, various tissues, Skeleton, joints of the human body.
C101.2	Explain and describe the composition, function of various body fluids like blood and lymph, anatomy and physiology and parameters related to CVS and related disorders.
C101.3	Explain the anatomy and physiology and parameters related to Respiratory, Digestive, Nervous systems and related disorders.
C101.4	Explain the anatomy and physiology and parameters related to Urinary, Endocrine, Reproductive systems.
C101.5	Explain the anatomy of Sense organs, Skeletal muscles and parameters of sports physiology.

Practical course

C107.1	Identify the various tissues of the human body.
C107.2	Perform the hematological tests.
C107.3	Record blood pressure and simple muscle curve.
C107.4	Study of various systems of the human body.



7.1 Assessment tools

Name of Direct assessment tool	Type	Weightage (Marks)	Weightage (Marks)
		Theory	Practical Part
Day to Day	Formative	-	10
Midterm	Formative	30	20
End Examination	End Assessment	70	70
	Total	100	100

6.2 Calculation of Course assessment

a) Theory

Type assessment	Total students Appeared	Max. marks	Marks to % Set marks of 60%	No. students scored 60% & above	% Students to more than 60 % & above	Course outcome
Continuous	-	-	-	-	-	-
End Exam	33	100	03	30	90.9%	5
Average Course outcome					75:25	5

b) Practical

Type assessment	Total students Appeared	Max. marks	Marks to % Set marks of 60%	No. students scored 60% & above	% Students to more than 60 % & above	Course outcome
Continuous	33	10	-	33	100	5
End Exam	33	100	-	33	100	5
Average Course outcome					75:25	5

c) Overall Assessment at the end of the Course

Type assessment	Total students Appeared	Max. marks	Marks to % Set marks of 60%	No. students scored 60% & above	% Students to more than 60 % & above	Course outcome
Theory	33	100	12	21	63.6%	5
Practical	33	100	-	33	100%	5

7. SWOC Analysis

Strength	Weakness
<p>This course strongly inculcates the knowledge of different organ systems of human body for treatment of different diseases.</p> <p>Thus, it uplifts the graduate competency, especially, enhance the skill-oriented competency.</p>	<p>The students are required to be provided with in depth knowledge.</p>
Opportunity	Challenges
<p>The students have opportunity to learn the practical skills which can be integrated with theoretical learning.</p>	<p>As the number of specimens available for the students limited to one or two, all students have been periodically posted for learning.</p>



8. Beyond syllabus /other enrichment activities (Extra class /Tutorials/Invited sessions/other ICT activities/Student participation/workshop conducted/etc relevant to this course

S. No.	Date	Activity Name/Session/Topic	Relevant CO	Most relevant POs
1	25/04/22	Quiz conducted in general hospital	C101.1,C101.2, C101.3,C101.4, C101.5	PO1, PO3
2	23/09/22	National Pharmacovigilance week	C101.4	PO3

9. Overall remarks and improvement (compare with previous data)

Paper	% Pass in Previous Year	% Pass in this year	CO attained in previous year	CO attained in previous year
Theory	89%	90.9%	3	3
Practical	100%	100%	3	3

10. Course exit survey Feedback (overall feedback on course delivery and knowledge transferred)

Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
64.95	23.64	11.09	0.32	0.00

11. Recommendations for future action / Observations (Based on item 10 and 11)

1	It was found that To record simple muscle curve using gastrocnemius sciatic nerve preparation experiment was not conducted due the instrument "out of order status". Hence it was decided to conduct for the next session.
2	The workshop on Pharmacovigilance was more effective. Hence it was decided to continue for the next session as beyond syllabus activities.
3	The ICT tool "PPT" is not effective for the delivery of sports physiology topic. Hence it was decided to discontinue from next session.
4	Overall, the course outcome of this course is good and reflected in the results of end examinations of both practical and theory and from the students feedback.

R. Jona

Signature of the Course instructor

B. Hemmer
Principal





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MAPPING OF COURSE OUTCOMES AND PROGRAMME OUTCOMES

Academic Year: 2021-22

Subject: HUMAN ANATOMY & PHYSIOLOGY

Name of the Faculty : R.JonaMethusala

Course Coordinator : J.Gopala Krishna

Branch/Year/Sem.: Pharm.D/I

Subject Code: 17T00101

	Course Outcome	Pos/PSOs	Class Sessions
CO101.1	Define structure and functions of cell, various tissues, Skeleton, joints of the human body.	PO1	20
CO101.2	Explain and describe the composition, function of various body fluids like blood and lymph, anatomy and physiology and parameters related to CVS and related disorders.	PO2	20
CO101.3	Explain the anatomy and physiology and parameters related to Respiratory, Digestive, Nervous systems and related disorders.	PO1	20
CO101.4	Explain the anatomy and physiology and parameters related to Urinary, Endocrine, Reproductive systems.	PO4	20
CO101.5	Explain the anatomy of Sense organs, Skeletal muscles and parameters of sports physiology.	PO2,PO3	15
Total Hours of instruction			95

Step 2: Course – PO matrix

40 of 95 (42.10%) sessions are CONTRIBUTE to PO1, Course Level PO1 mapping strength is 3.
35 of 95 (36.84%) sessions are CONTRIBUTE to PO2, Course Level PO2 mapping strength is 2.
15 of 95 (15.78%) sessions are CONTRIBUTE to PO3, Course Level PO3 mapping strength is 1.
20 of 64 (21.05%) sessions are CONTRIBUTE to PO4, Course Level PO4 mapping strength is 2.

Mapping Strength Scale:

=>40%	=>20% &<40%	=>5% &<20%	<5%
3	2	1	0

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Course and POs/PSOs mapping strengths table:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
	3	2	1	2				

Step 3: CO – PO/PSO Matrix

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO101.1	3	-	-	-	-	-	-	-
CO101.2	-	2	-	-	-	-	-	-
CO101.3	3	-	-	-	-	-	-	-
CO101.4	-	-	-	2	-	-	-	-
CO101.5	-	2	1	-	-	-	-	-

Explanation:

PO1 Values:

Total number of Sessions assigned to PO1: 40
Contributors of PO1 are CO101.1 (20 sessions) and CO3 (20 sessions).
Contribution of CO101.1 to PO1 is $20/40=50\%$.
Mapping strength is 3.
Contribution of CO101.3 to PO1 is $20/40=50\%$.
Mapping Strength is 3

PO2 Values:

Total number of Sessions assigned to PO2: 35
Contributor of PO2 is CO101.2 (20 sessions), CO101.5(15 sessions)
Contribution of CO101.2 to PO3 is $20/35=57\%$
Mapping strength is 3.
Contribution of CO101.5 to PO3 is $15/35=43\%$
Mapping strength is 3.

PO3 Values:

Total number of Sessions assigned to PO3: 15
Contributors of PO3 are CO101.5 (15 sessions)
Contribution of CO101.5 to PO3 is $15/15=100\%$.
Mapping strength is 3.

PO4 Values:

Total number of Sessions assigned to PO4: 20
Contributors of PO4 are CO101.4 (20 sessions)
Contribution of CO101.4 to PO4 is $20/20=100\%$.
Mapping strength is 3.

Mapping Strength Scale:

=>40%	=>20% &<40%	=>5% &<20%	<5%
3	2	1	0



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MAPPING OF COURSE OUTCOMES AND PROGRAMME OUTCOMES

Academic Year: 2021-22

Subject: HUMAN ANATOMY & PHYSIOLOGY

Name of the Faculty : R.JonaMethusala

Course Coordinator : J.Gopala Krishna

Branch/Year/Sem.: Pharm.D/I

Subject Code: 17T00101

Course Outcome	Pos/PSOs	Class Sessions
C107.1 Identify the various tissues of the human body.	PO1	25
C107.2 Perform the hematological tests.	PO4	25
C107.3 Record blood pressure and simple muscle curve.	PO4	25
C107.4 Study of various systems of the human body.	PO1	20
Total Hours of instruction		95

Step 2: Course – PO matrix

45 of 95 (47.3%) sessions are CONTRIBUTE to PO1, Course Level PO1 mapping strength is 3.
50 of 95 (52.63%) sessions are CONTRIBUTE to PO4, Course Level PO4 mapping strength is 3.

Mapping Strength Scale:

=>40%	=>20% &<40%	=>5% &<20%	<5%
3	2	1	0

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Course and POs/PSOs mapping strengths table:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
	3			3				

Step 3: CO – PO/PSO Matrix

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
C107.1	3	-	-	-	-	-	-	-
C107.2	-		-	3	-	-	-	-
C107.3	-	-	-	3	-	-	-	-
C107.4	3	-	-	-	-	-	-	-

Explanation:

PO1 Values:

Total number of Sessions assigned to PO1: 45
Contributors of PO1 are CO107.1 (25 sessions) and CO107.4 (20 sessions).
Contribution of CO107.1 to PO1 is $25/45=55\%$.
Mapping strength is 3.
Contribution of CO107.4 to PO1 is $20/45=44\%$.
Mapping Strength is 3

PO2 Values:

Total number of Sessions assigned to PO4: 50
Contributor of PO4 is CO107.2 (25 sessions), CO107.3 (25 sessions)
Contribution of CO107.2 to PO4 is $25/50=50\%$
Mapping strength is 3.
Contribution of CO107.3 to PO4 is $25/50=50\%$
Mapping strength is 3.

Mapping Strength Scale:

$\Rightarrow 40\%$	$\Rightarrow 20\% \& < 40\%$	$\Rightarrow 5\% \& < 20\%$	$< 5\%$
3	2	1	0

C107.1 Identify the various tissues of the human body.

C107.2 Perform the hematological tests.

C107.3 Record blood pressure and simple muscle curve.

C107.4 Study of various systems of the human body.

S. Venkama

PRINCIPAL

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DEPARTMENT OF PHARMACY
ACADEMIC YEAR: 2021-22

Sl.NO	BRANCH/PHARMACY	ROLL NO.	NAME OF THE STUDENT	MID EXAM - I			YEAR - I			SUBJECT/HAP/LAB			EXTERNAL MARKS	
				Identification	Synopsis	Major Experiment	View	Identification	View	Major Experiment	View	Identification		Synopsis
1	21ERIT0001		B.V. SUSHMA	4	3	7	3	1	4	4	7	3	1	65
2	21ERIT0002		BUJAM YOGA AMRUTHA	4	3	7	3	1	4	4	7	3	1	63
3	21ERIT0003		DASARI PRIYANKA	4	3	7	3	1	4	4	7	3	1	61
4	21ERIT0004		EDIGA BALAKRISHNA	4	3	7	3	1	4	4	7	3	1	64
5	21ERIT0005		KASULA SATWIKA	4	3	7	3	1	4	4	7	3	1	66
6	21ERIT0006		K.SUSMITHA	4	4	7	3	1	4	2	7	3	1	67
7	21ERIT0007		KURUVA BANGARU YANI	4	4	7	3	1	4	2	7	3	1	67
8	21ERIT0008		K.V.S.NAGA VIGNETHA	4	3	7	3	1	4	4	7	3	1	65
9	21ERIT0009		MANGALI JANAKI	4	4	7	3	1	4	3	7	3	1	64
10	21ERIT0010		MANGALI JYOSHINA	4	4	7	3	1	4	3	7	3	1	64
11	21ERIT0011		MASAPOGI KEERTHI	4	3	7	3	1	4	3	7	3	1	61
12	21ERIT0012		NEELAM AMRUTHA	4	4	7	3	1	4	4	7	3	1	64
13	21ERIT0013		PINJARI MOULALI	4	3	7	3	1	4	3	7	3	1	58
14	21ERIT0014		SHAIKH HARUN RASHEED	4	3	7	3	1	4	4	7	3	1	61
15	21ERIT0015		SURASURA AHALYA	4	4	7	3	1	4	3	7	3	1	61
16	21ERIT0016		THALARI NAVEEN	4	4	7	3	1	4	4	7	3	1	67
17	21ERIT0017		YENUKULA LAVANYA LAHARI	4	4	7	3	1	4	3	7	3	1	61
18	21ERIT0018		BIJJAM SNEHA REDDY	4	4	7	3	1	4	3	7	3	1	62
19	21ERIT0019		C UMESH CHANDRA	4	3	7	3	1	4	3	7	3	1	61
20	21ERIT0020		DUDEKULA REHANA	4	4	7	3	1	4	4	7	3	1	62
21	21ERIT0021		G.SRAVANI	4	3	7	3	1	4	3	7	3	1	66
22	21ERIT0022		KAPU HIMAVARSHINI	4	4	7	3	1	4	3	7	3	1	67
23	21ERIT0023		MD MUSHEEDAHMED	4	4	7	3	1	4	4	7	3	1	62
24	21ERIT0024		MEHVISH INSHIA FAISAL						4	3	7	3	1	61
25	21ERIT0025		R NOUSHREEN TAJ	4	4	7	3	1	4	3	7	3	1	62
26	21ERIT0026		SANGU NAVYA	4	4	7	3	1	4	3	7	3	1	62
27	21ERIT0027		SHAIKH AYESHA SIDDIQUA	4	4	7	3	1	4	3	7	3	1	62
28	21ERIT0028		S.N MOHAMMED ADNAN	4	3	7	3	1	4	3	7	3	1	61
29	21ERIT0029		SYED AQHIB HUSSAINI	4	4	7	3	1	4	3	7	3	1	61
30	21ERIT0030		TALARISAI SHARVANI	4	4	7	3	1	4	4	7	3	1	62
31	21ERIT0031		S AYESHA JABEEN	4	4	7	3	1	4	3	7	3	1	62
	21ERIT0032		S ASHRAF BEGUM	4	4	7	3	1	4	3	7	3	1	63
	21ERIT0033		K RAJKUMAR	4	3	7	3	1	4	3	7	3	1	61
	AVERAGE			4	3.6	7	3	1	4	3.3	7	3	1	63.09
	COURSE OUTCOMES			CO107.1	CO107.3	CO107.1	CO107.2	CO107.3	CO107.2	CO107.2	CO107.4	CO107.4	CO107.3	CO107.1-CO107.5
	CO WISE SUM			11	67		173		21					
	CO WISE PERCENTAGE			100	55.83		96.1		14					63.09

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PART 1: COURSE OUTCOME ATTAINMENT

Course outcome	CO101.1	CO101.2	CO101.3	CO101.4	CO101.5
Attainment Values	100	55.83	96.1	84	
Target Values	70	50	80	80	
Gap	NOGAP	NOGAP	NOGAP	NOGAP	

PART 2: CO-PO ATTAINMENT CALCULATION BASED ON INTERNAL EXAMS - EXTERNAL EXAMS - COURSE FEED BACK

Course Attainment Calculation	ATTAINMENT LEVELS				
	INTERNAL MARKS %	EXTERNAL MARKS %	DIRECT ATTAINMENT	INDIRECT ATTAINMENT	FINAL ATTAINMENT
CO101.1	100	61.09	74.16	66.8	71.69
CO101.2	55.83	61.09	60.51	51.25	58.38
CO101.3	96.1	61.09	72.99	62.25	70.84
CO101.4	84	61.09	69.36	58.35	67.16
CO101.5	0	61.09	41.16	61.35	47.6
CO6					

CO-PO Matrix for the Subject HRP LAB

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	ATTAINMENT LEVELS
CO101.1	3															2.18
CO101.2				3												1.78
CO101.3				3												2.13
CO101.4	3															2.01
CO101.5																1.43
CO6																

PO ATTAINMENTS

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	#REI
2.08775			1.9933												

Dr. K.V.SUBBA REDDY INSTITUTE OF PHARMACY

Opp. Dupadu Railway Station, N.H-44,
KURNOOL - 518 218.



ATTENDANCE REGISTER

ACADEMIC YEAR : 2021-2022

COURSE : Pharm.D

YEAR & SEMESTER : Ist & I

SUBJECT NAME : Human Anatomy & Physiology

STAFF NAME : _____

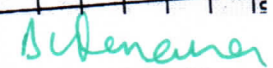
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Opp. Dupadu R.S. H.H.
KURNOOL-518218

LESSON PLAN

JNIT	Month & Year	TOPICS TO BE COVERED	No. of Classes Required	Remarks
1	Feb 2022	Scope of Anatomy & Physiology Basic Terminologies Structure of cell Ossons system Joints.		
2.	March 2022	Haemopoietic system Lymph Cardiovascular system		
3.	April 2022	Respiratory system.		
4.	May 2022	Digestive System		
5.	June 2022	Nervous System		
6.	July 2022	Urinary system.		

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Roll No.	STUDENT NAME	Date	14/10	15/10	16/10	17/10	18/10	19/10	20/10	21/10	22/10	23/10	24/10	25/10	26/10	27/10	28/10	29/10	30/10	31/10
0001	B. Neelaka Subbar		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0002	B. Y. Anusika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0003	D. Rajaganga		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0004	E. Subashina		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0005	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0006	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0007	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0008	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0009	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0010	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0011	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0012	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0013	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0014	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0015	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0016	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0017	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0018	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0019	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0020	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0021	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0022	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0023	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0024	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0025	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0026	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0027	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0028	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0029	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0030	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0031	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0032	K. Subashika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P


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LECTURE RECORD / TEACHING DIARY

S.No.	Date	Topics Covered / Exercises Completed	Remarks
1	14/12	Scope of Anatomy (Histology, Systemic anatomy)	NT
2	15/12	Structure of Cell	NT
3	11/10/12	Components/Functions of Cell	NT
4	22/10/12	Elementary tissues Epithelial, connective	NT
5	03/10/12	Elementary tissues Muscular, Nervous	NT
6	03/10/12	Bones of spine	NT
7	03/10/12	Articular skeleton	NT
8	08/10/12	Appendicular skeleton.	NT
9	09/10/12	Classification of Joints.	NT
10	11/10/12	Movement of Joints.	NT
11	14/10/12	Distal end of Joints	NT
12	16/10/12	Comparison of Joints	NT
13	18/10/12	Hammerhead, Synovial joints	NT
14	19/10/12	RBC, WBC, Platelets.	NT
15	22/10/12	WBC	NT
16	25/10/12	Platelets	NT
17	26/10/12	Blood vessels.	NT
18	28/10/12	Blood groups, clotting factors.	NT
19	08/10/11	Platelets	NT
20	09/10/11	Baselines of coagulation.	NT
21	14/10/11	Lymphatic system structure	NT
22	20/10/11	Functions of circulation	NT
23	22/10/11	Spleen structure & functions	NT
24	22/10/11	Division of spleen	NT
25	30/10/11	Baselines of lymphatic system	NT
26	05/11/11	Anatomy & functions of heart	NT

LECTURE RECORD / TEACHING DIARY


S.No.	Date	Topics Covered / Exercises Completed	Remarks
28	14/11/15	Coronary circulation	NT
29	18/10/15	Systemic circulation.	NT
30	20/10/15	ECG	NT
31	01/11/15	Cardiac cycle & heart sounds	NT
32	04/11/15	Blood pressure - maintenance	NT
33	06/11/15	Definition of disorders of CVS	NT
34	10/11/15	Anatomy & Physiology of CVS	NT
35	11/11/15	Anatomy & Physiology of GIT	NT
36	15/11/15	Accessory glands of GIT	NT
37	17/11/15	Digestion & absorption	NT
38	18/11/15	Disorders of GIT	NT
39	18/11/15	Anatomy & functions of respiratory system	NT
40	20/11/15	Mechanism of respiration	NT
41	20/11/15	Transport of respiratory gases	NT
42	27/11/15	Respiratory influences of digestion	NT
43	27/11/15	Definitions of disorders of respiratory system	NT
44	27/11/15	Definition of classification of Neurodegeneration	NT
45	22/11/15	Calcium	NT
46	24/11/15	Calcium	NT
47	24/11/15	Neural basis	NT
48	25/11/15	Basal ganglia	NT
49	28/11/15	Spinal nerves	NT
50	29/11/15	Prostate nerves	NT
51	01/12/15	Cranial nerves	NT
52	04/12/15	Leads of ECG	NT
53	08/12/15	Respiration, Nutrition, Metabolism & secretion	NT

LECTURE RECORD / TEACHING DIARY

S.No.	Date	Topics Covered / Exercises Completed	Remarks
1	27/02	Structure of human body.	Nil
2	28/02	Muscular tissue	Nil
3	02/03	Connective tissue	Nil
4	16/03	Neurone tissue	Nil
5	23/03	Skeletal system - Axial	Nil
6	30/03	Skeletal system - Appendicular	Nil
7	06/04	RBC count	Nil
8	14/04	WBC count	Nil
9	20/04	Estimation of Haemoglobin	Nil
10	28/04	Bleeding time	Nil
11	11/05	Clothing time.	Nil
12	01/06	Blood pressure using sphygmomanometer	Nil
13	27/06	Differential count	Nil
14	29/06	Erythrocyte sedimentation rate	Nil
15	06/7	Cardiovascular system	Nil
16	13/7	Respiratory system	Nil
17	20/7	Digestive system	Nil
18	03/08	Urinary system	Nil
19	25/08	Nervous system	Nil
20	02/09	Special senses	Nil
21	14/09	Reproductive system	Nil
22	21/09	Study of different family planning methods	Nil
23	28/9	Perform pregnancy diagnosis test	Nil


 Staff Member


 H.O.D


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E-mail : principalkvsrip@gmail.com www.drkvsrip.ac.in

MID 1 QUESTION PAPER

Answer any 3 questions from the following. [3 *10 = 30 Marks]

Q.NO	Questions	Marks	Unit	CO	Cognitive Level
1	Define	2 M	I	CO101.1	REMEMBER
	(a) Define Cell?				
	(b) Define RBC?				
	(c) Define Lymph?				
	(d) Define Blood pressure				
(e) classify the different types of Blood groups	2 M	2	CO101.2	UNDERSTAND	
3	Explain the Structure of cell – its components and their functions	10 M	I	CO101.1	UNDERSTAND
4	Explain Composition and functions of blood	10 M	II	CO101.2	UNDERSTAND
5	Describe the Anatomy and functions of heart.	10 M	II	CO101.2	UNDERSTAND

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MID II QUESTION PAPER

Answer any 3 questions from the following.

[3 * 10 = 30 Marks]

Q.NO	Questions	Marks	Unit	CO	Cognitive Level
1	Define (a) Define Hypoxia (b) Describe the functions of Hypothalamus (c) Define Spermatogenesis & oogenesis (d) Describe cranial nerves (e) Explain the Renin angiotensin aldosterone system	2 M	3	CO101.3	REMEMBER
		2 M	3	CO101.3	UNDERSTAND
		2 M	4	CO101.4	REMEMBER
		2 M	3	CO101.3	UNDERSTAND
		2 M	2	CO101.4	UNDERSTAND
3	Describe the anatomy of lungs & Physiology of Respiration with diagram	10 M	I	CO101.3	UNDERSTAND
4	Describe the anatomy & functions of Human brain	10 M	II	CO101.3	UNDERSTAND
5	Explain urine formation.	10 M	II	CO101.4	UNDERSTAND

S. Anand

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MID III QUESTION PAPER

Answer any 3 questions from the following. [3 * 10 = 30 Marks]

Q.NO	Questions	Marks	Unit	CO	Cognitive Level
1	(a) Define Pregnancy? (b) Define menstruation ? (c) Describe the functions of Eyes? (d) List the hormones of thyroid gland? (e) Explain the functions of Gonads?	2 M	3	CO101.4	REMEMBER
		2 M	3	CO101.4	UNDERSTAND
		2 M	4	CO101.5	UNDERSTAND
		2 M	3	CO101.4	REMEMBER
		2 M	2	CO101.4	UNDERSTAND
3	Explain about Female reproductive System	10 M	I	CO101.4	UNDERSTAND
4	Explain the structure & functions of Skin	10 M	II	CO101.5	UNDERSTAND
5	Explain Physiology of menstruation & Sex determination (genetic basis)?.	10 M	II	CO101.4	UNDERSTAND

S.V. Anand

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Fasten the Additional Answer Papers Securely



Signature of the Insp. Supdt.
With date:

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2022

College Code : ER

Year : I

Branch : Pharm.D

Semester :

Subject : Anatomy and physiology

No. of Additional Books :

Reg. No. 21ERIT0001

INSTRUCTIONS TO THE CANDIDATES

- Candidates are not allowed after commencement of Examination, and are not allowed to leave before the closure of Examination.
- Fill in the particulars before answering the questions.
- Write at least 25 lines in every page.
- Write legibly and neatly and draw the diagrams when ever necessary.
- Nothing is to be written on the Question Paper except their Reg. Nos.

O No.	1.	2.	3.	4.	5.	6.
a	10	10	10	10	10	10
b						
c						
d						
e						
Total						

Grand Total : 29/30

Signature of the Examiner

Start Writing from this Page

I

1.(a) Power house of the cell:-

- * Mitochondria is also called power house of the cell.
- * Mitochondria is a double membrane bound cell organelle.
- * It is concerned with oxidation of food and production of cellular energy in the form of ATP.
- * It is also called as energy currency of the cell.
- * It contains enzymes associated with carbohydrate, protein, and amino acid metabolism.
- * Mitochondria is a sausage shaped cell organelle.
- * It involves cellular respiration.

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(ii) WBCs:

WBCs: White Blood Cells

* These are also called leukocytes.

* These are mainly involved in body's defense mechanism.

* There are two types: Granulocytes

1) Granulocytes

Granulocytes:

Granulocytes involves

* Neutrophils

* Eosinophils

* Basophils

* Neutrophils are very small have neutrophils and basophils contain granules of heparin (anti-coagulant) and histamine.

Agranulocytes:

Agranulocytes involves

* Monocytes

* Lymphocytes

* Monocytes are large size compared to all the WBC cells and lymphocytes involves T-lymphocytes which help in immunological reactions and B-lymphocytes which help in antigen-antibody reactions.

(c) Cardiac Cycle

Average heart beat for a healthy person is

72 beats/min. It involves systole (contraction)

(cardiac contraction) and diastole (cardiac

relaxation). It consists of atrial systole,

ventricular systole and cardiac diastole. The

total process of cardiac cycle completes in 0.8 sec.

(d) Thrombocytes

* Thrombocytes are also called platelets.

* They mainly involved in coagulation (or) clotting of blood.

* Thrombocytes are formed from megakaryocytes

* Life span of thrombocytes is 7-10 days and



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III Mid Examination of 202

Reg. No.

a 1 E R I T O O O 1

College Code: (R
Year: 1st year
Branch: pharmacy

Semester :

Subject: Anatomy & Physiology

No. of Additional Books : 01

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- Fill in the particulars before answering the questions.
- Write at least 25 lines in every page.
- Write legibly and neatly and draw the diagrams when necessary.
- Nothing is to be written on the Question Paper except the Reg. Nos.

Q No.	1.	2.	3.	4.	5.	6.
a	10	9	8			
b						
c						
d						
e						
Total						

Grand Total :

27/30

Signature of the Examiner

[Signature]

Start Writing from this Page

1.00
Ans: Hypoxia: Hypoxia is state of decrease in level of oxygen at tissue level and changes in level of homeostasis.

1.00
Ans: functions of hypothalamus:-
Appetite, water balance, body temperature, emotional reactions and circadian rhythms (sleep and wake cycle).

1.00
Ans: Spermatogenesis: It is the process of formation of male gametes. It occurs in testies. The forms male gametes. Complete process occurs inside the

Oogenesis: It is the process of formation of female gametes & occurs inside the ovaries. It forms non-motile gametes. Most part of this process occurs in ovaries and some part occurs in oviducts.

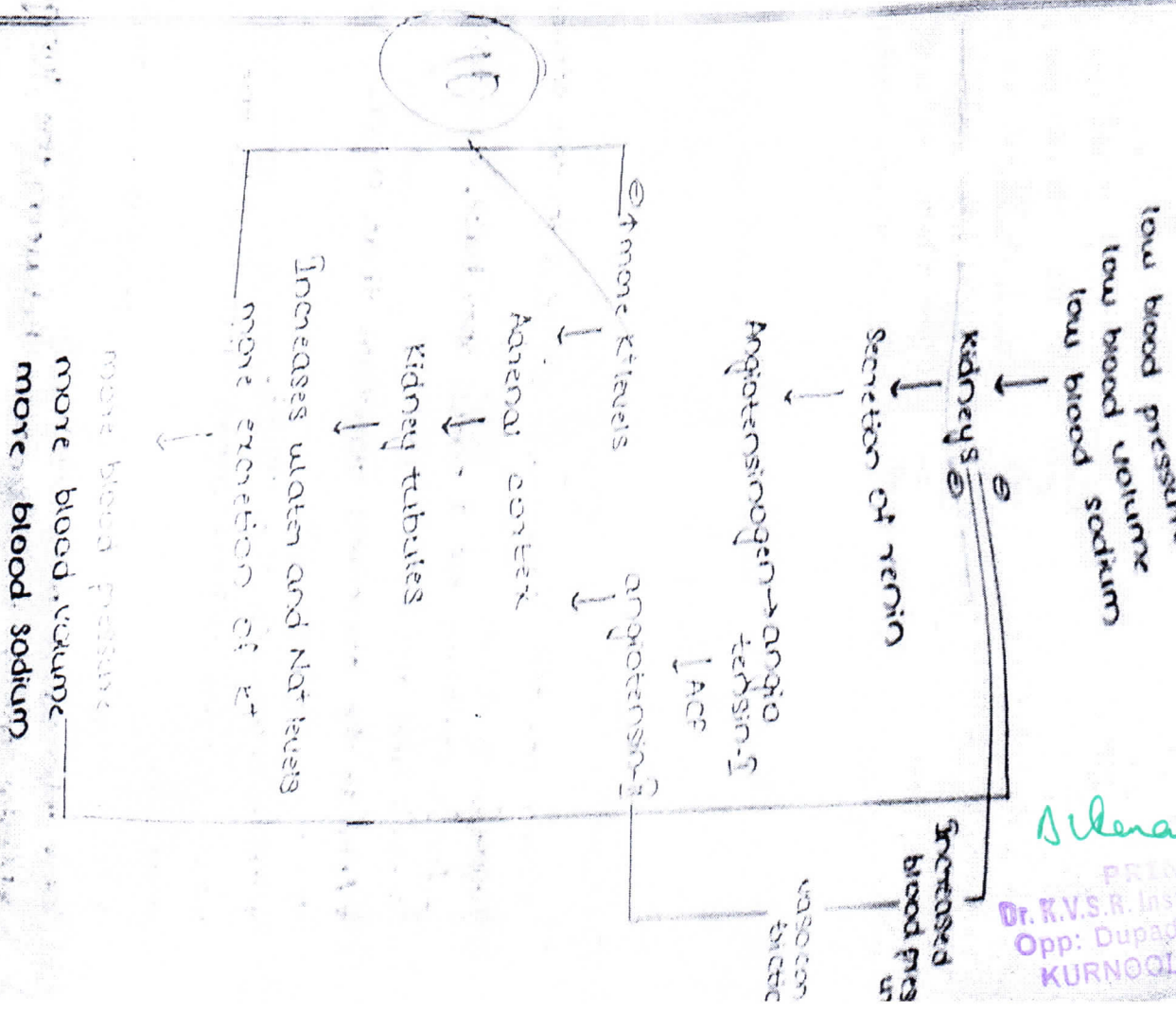
Q3)

Cranial nerves:
There are 12 pairs of cranial nerves

- Olfactory → Sensory
- Optic → Sensory
- Oculomotor → Motor
- Trochlear → Motor
- Trigeminal → Mixed
- Abducens → Sensory
- Facial → Mixed
- Vestibulo cochlear → Motor
- Vagus → Mixed
- Accessory nerve → Motor
- Hypoglossal → Motor

1 (4)
Ans-

Renin-angiotensin-aldosterone mechanism



Silvera



Signature of the Inst. Supdt.
With date:

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Mid Examination of: November, 2022

College Code: ER
Year: 1st year
Branch: Pharm.D

Reg. No: 21ERIT0001

Semester: _____
Subject: Human anatomy and physiology
No. of Additional Books: _____

INSTRUCTIONS TO THE CANDIDATES

- Candidates are not allowed after commencement of Examination and are not allowed to leave before the closure of Examination.
- Fill in the particulars before answering the questions.
- Write at least 25 lines in every page.
- Write legibly and neatly and draw the diagrams when ever necessary.
- Nothing is to be written on the Question Paper except their Reg. Nos.

Q No.	1.	2.	3.	4.	5.	6.
a	4	3	2	3	1	
b						
c						
d						
e						
Total						

Grand Total: 19/20

Signature of the Examiner

Start Writing from this Page

- 1 Identification:-
Eye, Ear, nose, tongue.
- 2 Synopsis:-
Contraceptive devices.
- 3 Major experiment:-
Draw the diagram and explain male reproductive system
- 4 Minor experiment:-
Draw the diagram of respiratory system.
- 5 Viva voice:-

S. Venana

an eye: It is a sense organ which receives the light and transmit signals to the brain through optic nerves and optic vision of the object. It consists of photoreceptors namely rods and cones.

1) Ear: Ear is meant for hearing and maintain balance. When sound waves are reached to the auditory nerve transmit nerve signals to the brain.

2) Nose: It is meant for sensation of smell. Olfactory receptors are present in the nose.

3) Tongue: It is meant for detection of taste. The taste is detected by the taste buds. It helps in mastication, deglutition, speech.

Synopsis:

Contraceptive devices:

The devices which prevent conception is called contraceptive devices.

Contraceptive devices include condom, diaphragm, intra-uterine contraceptive devices (IUCD).

Condom:

It is prepared from latex. It is rolled over the penis which prevents entering of sperm into the vagina i.e. conception. It acts as barrier for the transfer of sperm.

Diaphragm:

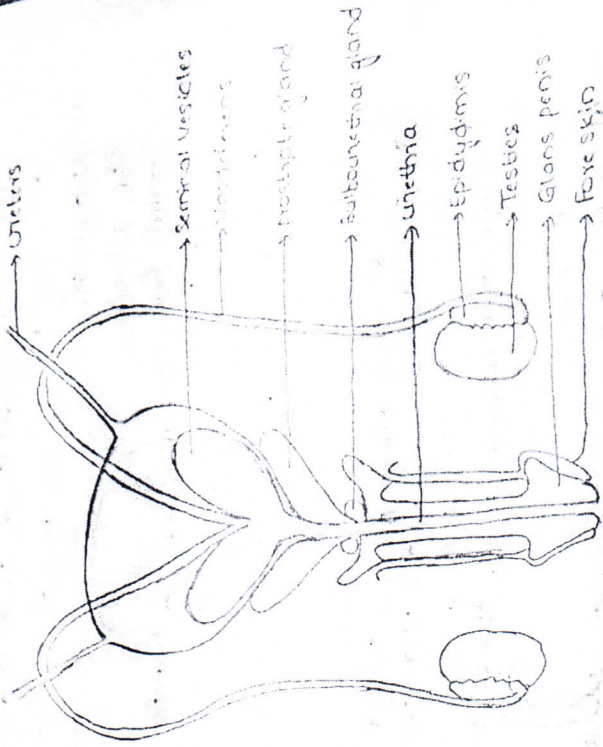
It is dome shaped structure which is made up of metal. It consists of rim like structure which is fitted in to the vagina. It should be fitted by the doctor or nurse. After sexual intercourse it should not removed and kept at same place for 5 hours.

Intra-uterine contraceptive devices:

IUCDs are two types: 1) Lipper's loop

2) Copper-T-loop

These are inserted into vagina to prevent



Male reproductive system

External Structures:

penis and scrotum.

penis - helpful for the sexual intercourse.

It consists of three cylindrical tissues outer

corpus spongiosum and inner layers of corpus

cavernosum which consists of erectile tissue which

erects the penis when hormones are released.

Scrotum - testis is located inside the scrotum which

maintains the temperature less than $2-2.5^{\circ}\text{C}$ than body temperature for the formation of sperms.

Testis:

Spermatogenesis occurs inside the testis. Sperm is

transported from tubules of testis \rightarrow rete testis



epididymis \rightarrow vas efferent

Fasten the Additional Answer Papers Securely



Signature of the Inst. Supdt.
With date:

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MOU with Government General Hospital & KMC, Kurnool)

III/III Mid Examination of.....202

College Code : ER

Reg. No.

21ERIT0002

Year : 1st

Semester :

No. of Additional Books :

Branch : Pharm.D.

Subject : Human Anatomy & Physiology

INSTRUCTIONS TO THE CANDIDATES

- Candidates are not allowed after commencement of Examination, and are not allowed to leave before the closure of Examination.
- Fill in the particulars before answering the questions.
- Write at least 25 lines in every page.
- Write legibly and neatly and draw the diagrams when ever necessary.
- Nothing is to be written on the Question Paper except their Reg. Nos.

Q No.	1.	2.	3.	4.	5.	6.
a	4	3	7	3	1	
b						
c						
d						
e						
Total						

Grand Total :

20

Signature of the Examiner

Start Writing from this Page

I Identification - 4M.

- Neuber's chamber - Used to count WBC & RBC.
- WBC pipette - It is used to dilute the blood to count WBCs in blood.
- RBC pipette - It is used to dilute the blood to count RBCs in blood.
- Haemocytometer - It is used to test the the haemoglobin content.

II Synapsis - 4M.

write about maintainance of B.P.

III Major experiment - 7M.

Axial & appendicular skeleton.

IV Minor experiment - 3M.

Estimation of Haemoglobin.

V VIVA-VOCE - 2M.

B. Chennappa
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KURNOGL-518218 (A.P)

Blood pressure:

Blood pressure is a pressure which is applied on the walls of blood vessels by the ~~pass~~ flow of blood. Pressure is applied by blood. ~~Artery~~ Artery maintains the & regulates the blood pressure.

Autoregulation Factors of Blood pressure:

Blood pressure is maintained in a blood pressure either either by vasoconstriction & vasodilation of blood vessels.
→ In CNS, liver, kidney - flow of blood, presence of blood pressure is more whereas in skeletal muscle B.P is less than that of liver, kidney, CNS.

The ability of maintaining the blood pressure on its own without any external stimulus is called as Autoregulation of blood pressure.

Factors affecting Blood Pressure:

Blood pressure is determined by ~~Cardiac output~~ stroke volume and Peripheral stroke volume.
Vascular constriction.

→ Stroke volume is cardiac output & no. of heart rate

Heart rate is 72 beats/min.

→ cardiac output is amount of blood is out after ventricular contraction.

→ Peripheral vascular constriction is the amount of blood is still remained after vascular ventricular contraction.

→ There are 2 types of regulation 1) Short term
2) Long term.

→ Short term regulation is regulated by Baro receptors.

→ Long term regulation - regulated by Renin Angiotensin & Aldosteron System.

Baro receptors are the nerve endings which regulates the B.P in vessels.

→ whenever there is increase in blood pressure in vessels, sends signals to para sympathetic nervous system & it causes the vasodilation.

Principles

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Opp: Dup
KARNATAKA

When there is decrease in blood pressure in blood vessels & it causes the sympathetic sends signals to vaso constriction. Page No

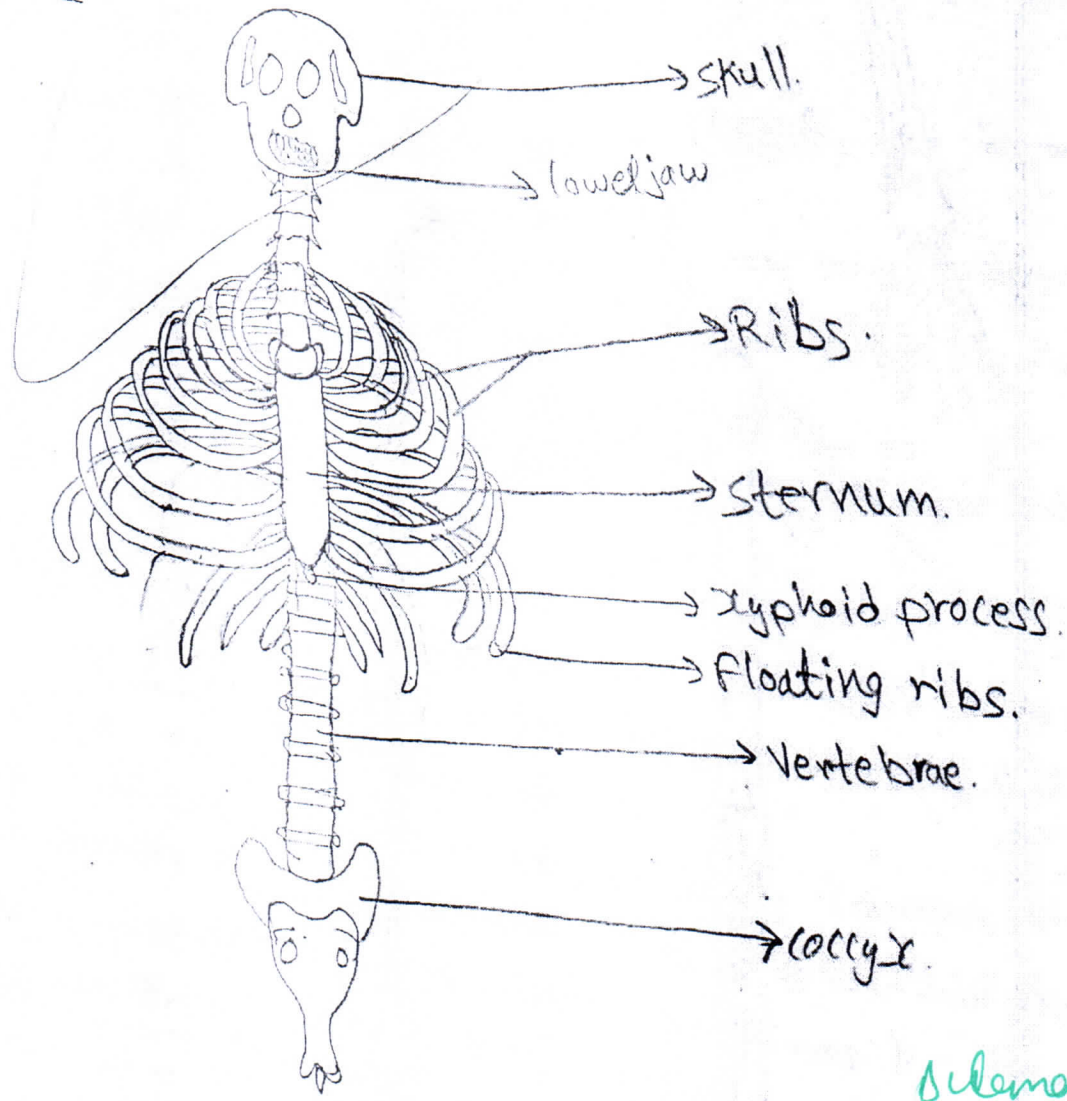
⇒ Aldosterone is a vaso dilator, which tends to dilate/relax the blood vessels hence decrease the blood pressure.

⇒ Normal blood pressure of a human is $\frac{120}{80}$

120 → Systole (contraction of heart chambers)
 80 → Diastole (relaxation of heart chambers)

III Axial and Appendicular skeleton

Axial



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Signature of the Exm. Supdt.
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MCOU with Government General Hospital & VMC, Kurnool)
2022

College Code : ER

Year : I

Branch : Pharm.D

Semester :

Subject : Anatomy and physiology

No. of Additional Books :

Reg. No.

2	1	E	R	I	T	O	O	O	1
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INSTRUCTIONS TO THE CANDIDATES

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2. Fill in the particulars before answering the questions.
3. Write at least 25 lines in every page.
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5. Nothing is to be written on the Question Paper except their Reg. Nos.

O No.	1.	2.	3.	4.	5.	6.
a	10	9	10			
b						
c						
d						
e						
Total						

Grand Total :

29	180
----	-----

Signature of the Examiner

Start Writing from this Page

I

1. (a) Power house of the cell:-

- * Mitochondria is also called power house of the cell.
- * Mitochondria is a double membrane bound cell organelle.
- * It is concerned with oxidation of food and production of cellular energy in the form of ATP.
- * It is also called as energy currency of the cell.
- * It contains enzymes associated with carbohydrate, protein, and amino acid metabolism.
- * Mitochondria is a sausage shaped cell organelle.
- * It involves cellular respiration.

Subbarama

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(ii) WBCs

White blood cells

* These are also called leukocytes

* These are mainly involved in body's defense mechanism

* There are two types of leukocytes
1) Granulocytes
2) Agranulocytes

Granulocytes

Granulocytes includes
* Neutrophils
* Eosinophils
* Basophils

* Neutrophils are very small but sequestrates and basophils contains granules of heparin (anti-coagulant) and histamine.

Agranulocytes

Agranulocytes includes
* Monocytes
* Lymphocytes

* Monocytes are large size compared to all the WBC cells and lymphocytes includes T-lymphocytes which help in immunological responses and B-lymphocytes which help in antigen-antibody reactions.

(c) Cardiac Cycle

Average heart beat for a healthy person is 72 beats per min. It involves ~~systemic circulation~~ (cardiac contraction) and diastole (cardiac relaxation). It consists of atrial systole, ventricular systole and cardiac diastole. The total process of cardiac cycle completes in 0.8 sec.

(d) Thrombocytes

* Thrombocytes are also called platelets

* They mainly involved in coagulation (or) clotting of blood.

* Thrombocytes are formed from megakaryocytes

* Life span of thrombocytes is 7-10 days and

Fasten the Additional Answer Papers Securely



Signature of the Asst. Supdt.
With date :

Dr. K.V. Subba Reddy Institute of Pharmacy, Kurnool.

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MOU with Government General Hospital & KMC, Kurnool)

VIIth Mid Examination of... Nov/Dec 2022

Reg. No.

a I E R I T O O O I

College Code : ER

Year : 1st year

Branch : Pharm. D

Semester :

Subject : Human anatomy & physiology

No. of Additional Books :

INSTRUCTIONS TO THE CANDIDATES

1. Candidates are not allowed after commencement of Examination, and are not allowed to leave before the closure of Examination.
2. Fill in the particulars before answering the questions.
3. Write at least 25 lines in every page.
4. Write legibly and neatly and draw the diagrams when ever necessary.
5. Nothing is to be written on the Question Paper except their Reg. Nos.

Q No.	1.	2.	3.	4.	5.	6.
a	10	10	9			
b						
c						
d						
e						
Total						

Grand Total :

29/80

Signature of the Examiner

Start Writing from this Page

1. (a) pregnancy:-

It is the period from fertilisation of ovum by the sperm to the delivery of foetus.

* It occurs 9 months or 266 days or 40 weeks.

* It starts from the conception (fertilisation of ovum by sperm) to the parturition.

1st trimester - organogenesis

2nd trimester - formation of hair and eyelids

3rd trimester - full development of foetus.

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(b) Menstruation: Release of unfertilised ovum and rupture of endometrium in females.

- This averagely lasts for 28 days.
- This menstruation stops at the age of 45-55 years which is called menopause.
- This menstruation starts at the age of puberty.
- It has 3 phases:
 - 1) Menstrual phase
 - 2) Proliferative phase
 - 3) Secretory phase

(c) Functions of eye:

- Helps in vision of objects.
- Rods helps to see the dark vision.
- Cones helps to see the bright vision.
- They receive the light and transmit the impulses to the brain and helps to vision of object.

(d) Hormones of thyroid glands:

Thyroxine (T₄)
Triiodothyronine (T₃)
 These hormones are synthesised by thyroid stimulating hormone (TSH).
 Hypothyroidism occurs due to the thyroid deficiency, whereas hyperthyroidism occurs due to the excess of thyroid hormone.
 Calcium is released by excess of the thyroid gland which inhibits the absorption of calcium in kidney tubules. It is important to check the increase and quantity of this.

(e) Gonads: Gonads are testes and ovaries.

- Testes:
- Occurring of spermatogenesis maintains the release of testosterone which and maturation of secondary sexual characters.
- Ovaries:
- Oogenesis occurs, maturation and formation of ovidian follicles.
 - Release of ovarian hormones which maintain the secondary sexual characters.

ANSWER

Female reproductive system:



External genitalia are a pair of ovaries

Internal genitalia are a pair of ovaries, uterus, cervix, vagina

Shri Bhav Educational Society's

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and JNTU with Government General Hospital & KMC, Kurnool
Opp Dupadu Railway Station, Kurnool-518218 (A.P) India

ASSIGNMENT NOTES



Department of

Name : K. Tyoshna

Class : Pharm-D 1st Year

Roll No: 21ER170010 Year / Sem: _____

Lab : HAD

S. Venkatesh
PRINCIPAL

Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44
KURNOOL-518218 (A.P)

Student Name : M. Tejashna

Student Reg. No. : R1ER1T0010

Year & Semester : 2022

Name of the Subject : ~~Pharmaceutical Inorganic chemistry~~
Human Anatomy and Physiology

S.No.	Date of the Assignment	Pages	Marks Awarded	Signature of the Staff
1	1/1/2022	01-04	0	
2				
3				
4				
5				

Signature of HOD

General instruction to Students

1. Bring this Assignment notes to College daily. Do not scribble in the assignment notes and do not use it as rough copy. Must maintain regularity & Punctuality.
2. Come to College regularly and always be on time.
3. Always be clean, well groomed and in proper College dress code.
4. Keep the College premises clean and tidy and use all College property with respect and care.
5. It is important to learn to be considerate towards all and courteous and respectful to your parents, teachers and all elders.
6. Cultivate a good sportsman spirit and be fair and honest in your work and dealings.
7. No Cigarettes, Plastic is Obscene !

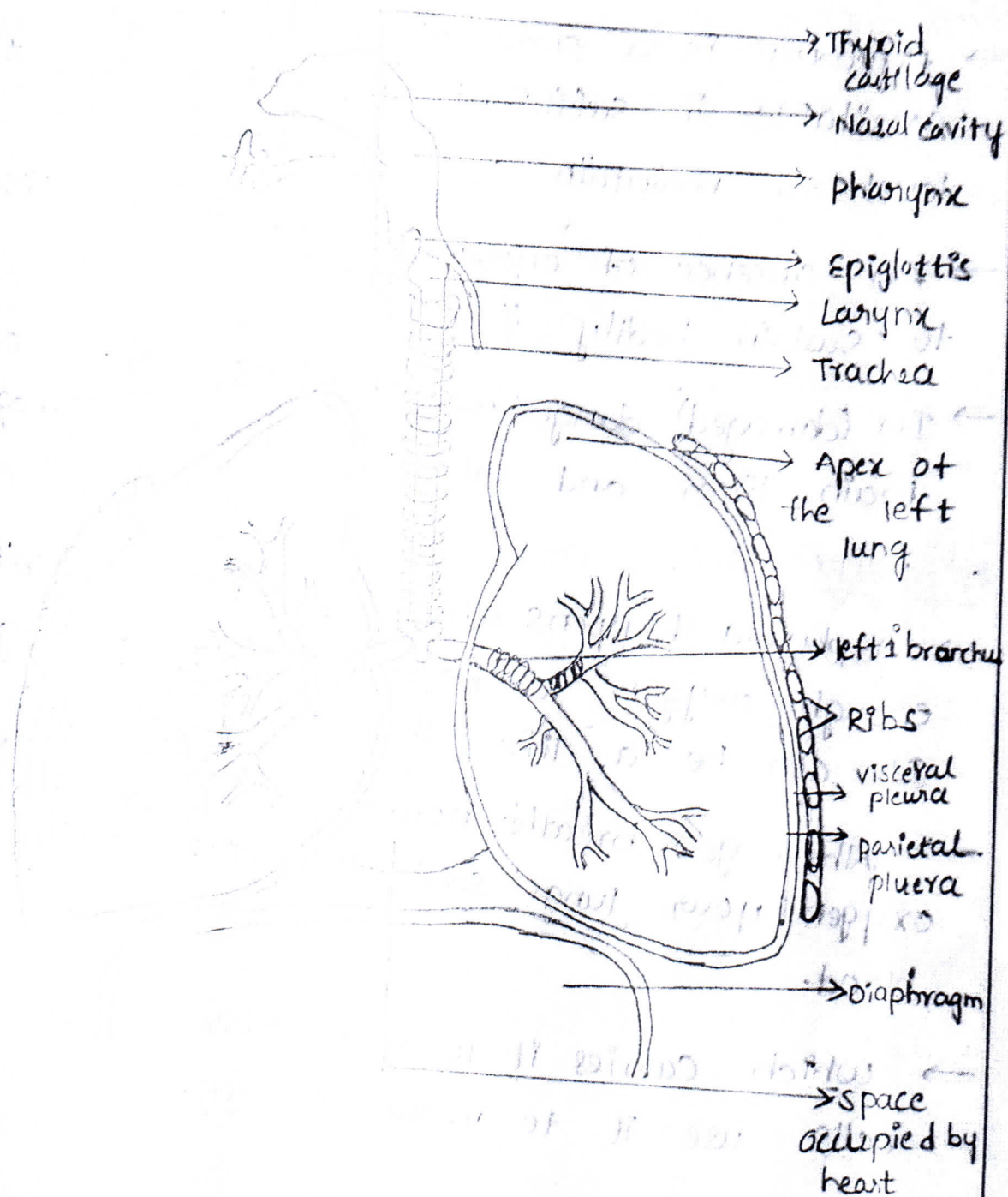
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KURNOOL-518218 (A.P.)

Assignment No. _____

RESPIRATORY SYSTEM

Q. Draw a diagram of respiratory system?

Respiratory System



S. Srinivas

Assignment No. :
Assignment Name :

Date :

Page No. : 2

Write a brief note on hypoxia, Asphyxia, Dybarism, oxygen therapy and resuscitation?

Hypoxia :

→ Hypoxia is a state in which oxygen is not available in sufficient amounts at the tissue level to maintain adequate homeostasis.

→ An absence of enough oxygen in the tissues to sustain bodily functions.

→ In (damaged) dangerous conditions without oxygen brain, liver and other organs are damaged.

Asphyxia :

→ Asphyxia is a condition in which oxygen is not available to keep you from passing out or dying.

→ Asphyxia is a condition in which oxygen is not available to keep you from passing out or dying.

Assignment No. :
Assignment Name :

Date :

Page No. : 3

3. Dybarism :

→ Dybarism describes any condition resulting from change in ambient pressure that occurs at a rate outpacing the body's ability to adapt safely.

Ex: Decompression sickness (DCS)

Nitrogen Narcosis

High pressure neurological syndrome (HPNS)

Barotrauma & arterial gas emboli (AGE).

Oxygen therapy :

→ Oxygen therapy is the administration of oxygen to a patient who is hypoxic or who has a respiratory condition.

→ Oxygen therapy is the administration of oxygen to a patient who is hypoxic or who has a respiratory condition.

→ Oxygen therapy is the administration of oxygen to a patient who is hypoxic or who has a respiratory condition.

Silamane

INDEX

Serial No.	Name of the Experiment	Expt. No.	Page No.	Remarks
1.	1. Study of tissues of human body	1		
	1.1 Epithelial Tissue		1-5	OKM
	1.2 Connective Tissue		6-8	OKM
2.	2. Study of tissue of human body	2		
	2.1 Connective Tissue		9-10	OKM
	2.2 Nervous Tissue		11-14	OKM
3.	3. Study of appliances used in hematological experiment.	3		
			30-32	OKM
4.	4. Determination of WBC count of blood	4	33-35	OKM
5.	5. Determination of RBC count of blood	5	36-38	OKM
6.	6. Determination of Differential count of blood	6	39-42	OKM
7.	7. Determination of erythrocyte sedimentation rate	7	43-46	OKM
8.	8. Determination of Haemoglobin content of blood	8	47-50	OKM
9.	9. Determination of Bleeding Time	9	51-52	OKM
10.	10. Determination of clotting Time	10	53-55	OKM
11.	11. Blood pressure	11	56-59	OKM
12.	12. Determination of Blood group	12	60-61	OKM
13.	13. Lymphatic System	13		
	13.1 Axial Skeletal System		15-24	OKM
	13.2 Appendicular Skeletal System		25-29	OKM


COURSE FILE - ACY 2021-22


BACHELOR of Pharmacy - I Year; I - Semester

Name of the course	Human anatomy and physiology-1(HAP-1)
Course Code	BP101T
Credits / h	4 credit / 3 hours per week
Paper	Theory (BP101T) Practical (BP107PT)
Instructor	ARUNA.B
Academic Session	14 th feb 2022 to 16 th july 2022

Check list:

S. No.	Description	Yes/NO
1	Details of course structure	Yes
2	Course Description	Yes
3	Course outcome	Yes
4	Course outcome and Program outcome matrix	Yes
5	Weekly Academic planner and Teaching plan	Yes
6	Recommended reference Books	Yes
7	Assessment tools, Rubrics and Scheme of examinations	Yes
8	Course outcome assessment	Yes
9	SWOC Analysis	Yes
10	Beyond syllabus /other enrichment activities	Yes
11	Overall remarks and improvement (compare with previous data)	NO
12	Course exit survey Feedback	Yes
13	Recommendations for future action / Observations	Yes
14	Annexures a. Attendance copy b. Question papers of Midterms /class test c. Model Answer scripts Best & Worst d. Assignment /Seminar allotment e. Model assignment/Seminar Best & Worst f. Model Practical record book/manual g. Any other assessment tools if any.	Yes


Signature of the faculty


HOD


Principal

Details of course structure

Name of the course	Human anatomy and physiology-1(HAP-1)
Course Code	BP101T
Credits / h	4 credit / 3 hours per week
Paper	Theory (BP101T) Practical (BP107P)
Instructor	Aruna.B
Academic Session	16 th Sep 2019 to 15 th Feb 2020

1.Course Description

The theory course deals with the different levels of organization of human body, tissues types, skeletal and muscular system, composition and functions of blood and lymph, anatomy of heart and bloodvessels, physiology of blood pumping, cardiac cycle, blood pressure and its regulation, anatomy and physiology of brain and spinal cord, cranial nerves and their branches, spinal nerves and their branches, structure and functions of special senses like eye, ear, nose, tongue etc.

The practical courses deal with the study of compound microscope and epithelial, connective, muscular and nervous tissues. Identification of different types of bones, estimation of clotting time, bleeding time, blood groups, heart rate, pulse rate and recording of blood pressure.

1. Course outcome

At the end of the theory course, the student will be able to

C101.1	Students would identify the gross morphology, structure and functions of cell, skeletal, muscular, cardiovascular system of the human body
C101.2	They would understand the various homeostatic mechanisms and their imbalances and special senses.
C101.3	Students would be able to identify the different types of bones and joints in human body
C101.4	Students would be able to analyse the various tissues of different systems of human body
C101.5	Student will be able to analyze the Cardiovascular system and lymphatic system.
C101.6	They would have learnt various techniques like blood group determination, blood pressure measurement, blood cells counting

At the end of the practical course of experiments, the student will be able to

C105.1	To recall handling of compound microscope and to memorize various animal tissues
C105.2	To summarize the characteristics of different bones (skeletal system).
C105.3	To identify the bleeding/clotting time and blood group.
C105.4	To analyze the blood cells using hemocytometry.
C105.5	To estimate the hemoglobin concentration of human blood and blood pressure..
C105.6	To predict the erythrocyte sedimentation rate of human blood and heart rate/ pulse rate.

2. Course outcome and Program outcome matrix

Dept. of Pharmacology												
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101.1	3			1	1		2		2		1	3
C101.2		1			1	3		2		2		

C101.3	2			2			2					
C101.4	2	1	1		1					2		2
C101.5			3				2	1			3	
C107.6	3					1		1				
C107.7		2			2					2		
C107.8	3			1							3	
C107.9						1		1				1
C107.10	3		2				1		1	2		
C107.11		3		2								
C107.12	3		2			1		1			2	
						1		1		2		

3. Weekly Academic planner and Teaching plan for theory contents delivered

Week	Hours	Unit	Contents	hours consumed
Week 1	4 h	1	Introduction to human body: scope of anatomy and physiology, levels of organization of human body (2 hour). Homeostasis, positive and negative feed back systems (2 hour).	4
Week 2	4 h	1	Cellular level of organization: structure and functions of cell, transport across cell membrane, cell division, cell junctions. General principles of cell communication, intracellular signaling pathway activation by extracellular signal molecule, (3 hours). Forms of intracellular signaling: a) Contact-dependent b) Paracrine c) Synaptic d) Endocrine (1 hour).	4
Week 3	4 h	1	Tissue level of organization : Classification of tissues, structure, location and functions of epithelial, muscular and nervous and connective tissues. (4 hours).	4
Week 4	4 h	2	Integumentary system: Structure and functions of skin (2 hours). Joints: Structural and functional classification, types of joints movements and its articulation (2 hours).	4
Week 5	4 h	2	Skeletal system: Divisions of skeletal system, types of bone, salient features and functions of bones of axial and appendicular skeletal system Organization of skeletal muscle, physiology of muscle contraction, neuromuscular junction	4
Week 6	4 h	3	Body fluids and blood : Body fluids, composition and functions of blood, hemopoiesis, formation of hemoglobin, anemia, mechanisms of coagulation, blood grouping, Rh factors, transfusion, its significance and disorders of blood, Reticulo endothelial system. (4 hours).	4
Week 7	4 h	4	Peripheral nervous system: Classification of peripheral nervous system: Structure and functions of sympathetic and parasympathetic nervous system.	4
Week 8	4 h	4	Origin and functions of spinal and cranial nerves. (4 hours)	4
Week 9	4 h	4&5	a) Special senses Structure and functions of eye, ear, nose and tongue and their disorders. (2 hour) b) Cardiovascular system Heart – anatomy of heart, blood circulation, (2hours)	4
Week	4 h	5	Regulation of blood pressure, pulse, electrocardiogram	4

10			and disorders of heart(4hours).	
Week 11	4 h	5	Lymphatic system :Lymphatic organs and tissues, lymphatic vessels, lymph circulation and functions of lymphatic system (4 hours).	4
Week 12	4 h	5	blood vessels, structure and functions of artery, vein and capillaries, elements of conduction system of heart and heart beat, its regulation by autonomic nervous system, cardiac output, cardiac cycle(4 hours).	4
Week 13	4 h	--	Revision	4
Week 14	4 h	--	Revision	4

Weekly Academic planner and Title of the experiments conducted

Week	Duration	Description of Activity /Experiments	Type
1	3h	Study of compound microscope.	demonstration
2	3h	Microscopic study of epithelial and connective tissue	demonstration
3	3h	Microscopic study of muscular and nervous tissue	demonstration
4	3h	Identification of axial bones	demonstration
5	3h	Identification of appendicular bones	demonstration
6	3h	Introduction to hemocytometry.	Demonstration
7	3h	Enumeration of white blood cell (WBC) count	Experiment
8	3h	Enumeration of total red blood corpuscles (RBC) count	Experiment
9	3h	Determination of bleeding time	Experiment
10	3h	Determination of clotting time	Experiment
11	3h	Estimation of hemoglobin content	Experiment
12	3h	Determination of blood group.	Experiment
13	3h	Determination of erythrocyte sedimentation rate (ESR)	Experiment
14	3h	Determination of heart rate and pulse rate	Experiment
15	3h	Recording of blood pressure.	Experiment

4. Recommended reference Books

1. Essentials of Medical Physiology by K. Sembulingam and P. Sembulingam. Jaypee brothers medical publishers, New Delhi.
2. Anatomy and Physiology in Health and Illness by Kathleen J.W. Wilson, Churchill Livingstone, New York
3. Physiological basis of Medical Practice-Best and Tailor. Williams & Wilkins Co,Riverview,MI USA
4. Text book of Medical Physiology- Arthur C,Guyton andJohn.E. Hall. Miamisburg, OH, U.S.A.
5. Principles of Anatomy and Physiology by Tortora Grabowski. Palmetto, GA, U.S.A.

6. Textbook of Human Histology by Inderbir Singh, Jaypee brother's medical publishers, New Delhi.
 7. Textbook of Practical Physiology by C.L. Ghai, Jaypee brother's medical publishers, New Delhi.
 8. Practical workbook of Human Physiology by K. Srinageswari and Rajeev Sharma, Jaypee brother's medical publishers, New Delhi. Reference Books (Latest Editions)
 9. Physiological basis of Medical Practice-Best and Tailor. Williams & Wilkins Co, Riverview, MI USA
 10. Text book of Medical Physiology- Arthur C, Guyton and John. E. Hall. Miamisburg, OH, U.S.A.
 11. Human Physiology (vol 1 and 2) by Dr. C.C. Chatterrje ,Academic Publishers Kolkata
5. Assessment tools, Rubrics and Scheme of examinations

6.1 Continuous assessment Rubrics

Program- B. Pharm – HUMAN ANATOMY AND PHYSIOLOGY-1

Practical							Theory					
Day to Day Assessment (5M)					Exam	TOTAL	Day to Day Assessment (10M)				Exam	Total
Att. (1)	Obs. (1)	Rec (1)	Skill (1)	Inter. (1)	10M	15 M	Att. (3)	Task. (2)	Inter. (2)	Self-Learning (3)	15	25

6.2 Final Scheme of Internal Examination and End Examinations (Model)

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP101T	Human Anatomy and Physiology I-Theory	10	15	1 Hr	25	75	3 Hrs	100
BP107P	Human Anatomy and Physiology-Practical	5	10	4 Hrs	15	35	4 Hrs	50

6.3 Letter's grade and Grade point equivalent to % of marks and Performance:

Percentage of Marks Obtained	Letter Grade	Grade Point	Performance
90.00 – 100	O	10	Outstanding
80.00 – 89.99	A	9	Excellent
70.00 – 79.99	B	8	Good
60.00 – 69.99	C	7	Fair
50.00 – 59.99	D	6	Average
Less than 50	F	0	Fail
Absent	AB	0	Fail

A learner who remains absent for any end semester examination shall be assigned a letter grade of AB and a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.

6. Course outcome assessment

Theory Course

C101.1	Students would identify the gross morphology, structure and functions of cell, skeletal, muscular, cardiovascular system of the human body
C101.2	They would understand the various homeostatic mechanisms and their imbalances and special senses.
C101.3	Students would be able to identify the different types of bones and joints in human body
C101.4	Students would be able to analyse the various tissues of different systems of human body
C101.5	Student will able to analyze the Cardiovascular system and lymphatic system.
C101.6	They would have learnt various techniques like blood group determination, blood pressure measurement, blood cells counting

Practical Course

C105.1	To recall handling of compound microscope and to memorize various animal tissues
C105.2	To summarize the characteristics of different bones (skeletal system).
C105.3	To identify the bleeding/clotting time and blood group.
C105.4	To analyze the blood cells using heamocytometry.
C105.5	To estimate the hemoglobin concentration of human blood and blood pressure..
C105.6	To predict the erythrocyte sedimentation rate of human blood and heart rate/ pulse rate.

7.1 Assessment tools

Name of Direct assessment tool	Type	Weightage (Marks)	
		Theory	Practical
Day to Day	Formative	10	5
Midterm	Formative	15	10
End Examination	End Assessment	75	35
	Total	100	50

6.2 Calculation of Course assessment

a) Theory

Type assessment	Total students Appeared	Max. marks	Marks to % Set marks of 60%	No. students scored 60% & above	% Students to more than 60% & above	Course outcome
-----------------	-------------------------	------------	-----------------------------	---------------------------------	-------------------------------------	----------------

Continuous	105	25	15	93	97.65%	6
End Exam	105	75	45	98	93.33%	6
Average Course outcome					75:25	6

b) Practical

Type assessment	Total students Appeared	Max. marks	Marks to % Set marks of 60%	No. students scored 60% & above	% Students to more than 60 % & above	Course outcome
Continuous	105	15	09	96	91.42%	6
End Exam	105	35	21	91	86.66%	6
Average Course outcome					70:30	6

c) Overall Assessment at the end of the Course

Type assessment	Total students Appeared	Max. marks	Marks to % Set marks 60%	No. students scored 60% & above	% Students to more than 60 % & above	Course outcome
Theory	105	100	60	92	87.61%	6
Practical	105	50	90	97	92.38%	6

7. SWOC Analysis

Strength	Weakness
Development of new online resources like animal simulation softwares. Upskilling in new technologies and resources.	The students are required to be provided with in depth knowledge
Opportunity	Challenges
The students have opportunity to learn the practical skills which can be integrated with theoretical learning.	As the number of specimens available for the students limited to one or two, all students have been periodically posted for learning.

8. Beyond syllabus /other enrichment activities (Extra class /Tutorials/Invited sessions/other ICT activities/Student participation/workshop conducted/etc relevant to this course

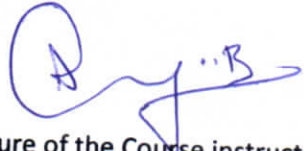
S. No.	Date	Activity Name/Session/Topic	Relevant CO	Most relevant Pos
1	25/04/22	Quiz conducted in govt.general hospital	C01,C02,C03,C04,C05,C06.	PO1, PO2

9. Overall remarks and improvement (compare with previous data)

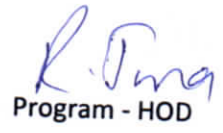
Paper	% Pass in Previous Year	% Pass in this year	CO attained in previous year	CO attained in this year
Theory	89%	92.1%	6	6
Practical	100%	100%	6	6

10. Course exit survey Feedback (overall feedback on course delivery and knowledge transferred)

Excellent	Very Good	Good	Fair	Bad
>90%	80-90 %	65-79 %	50-64%	<50%
81%	16%	3%	0%	0%



Signature of the Course instructor



Program - HOD

PROGRAM	YEAR/SEM/BATCH	EXAMINATION	DATE
B PHARM	I year	MID II	

NAME OF THE SUBJECT: - HAP

SUBJECT CODE: BP101T

Regulation: R19

TIME: FROM 10.30:00 TO 12:00 PM

ANSWER ALL THE FOLLOWING QUESTIONS

MAXIMUM MARKS: 30 Marks
2×5=10M

1.a) define hypertension.

2 M	Unit V	CO4	Remembering
-----	--------	-----	-------------

b) define anosmia and hyposmia

2M	Unit III	CO4	Remembering
----	----------	-----	-------------

c) write the composition of lymph.

2M	Unit III	CO4	Remembering
----	----------	-----	-------------

d) define heart failure and atherosclerosis.

2M	Unit V	CO4	Remembering
----	--------	-----	-------------

e) draw a neat labelled diagram of lymph nodes.

2M	Unit V	CO4	Remembering
----	--------	-----	-------------

II. ANSWER ANY 1 OF THE FOLLOWING
10×1=10M

2) write a short notes on ECG

10M	Unit III	CO4	Remembering
-----	----------	-----	-------------

3) write structure and functions of spleen

4) draw a neat labelled diagram of eye and ear

10M	UNIT V	CO5	Applying
-----	--------	-----	----------

III. ANSWER ANY 2 OF THE FOLLOWING

5×2=10M

5M	UNIT V	CO5	Remembering
----	--------	-----	-------------

Dr. K. V. SUBBA REDDY INSTITUTE OF PHARMACY

(Approved by AICTE & PCI New Delhi, Permanent Affiliated to JNTU Anantapur, Anantapuramu,

MoU with Government General Hospital, KMC, Kurnool)

Recognized U/s 12(f) and 2B of UGC act 1956

Opp: Dupadu RS, N.H-44, Lakshmipuram (Post), Kurnool-518218

E-mail: principalkvsrip@gmail.com

Cell: +919440282181, +919704333789

Fax: 08518-287618

			g
--	--	--	---

5} Explain the anatomy of heart with a neat labelled diagram

5 M	UNI T III	CO6	analyz e
--------	--------------	-----	-------------

6) write about the regulation of blood pressure.

PROGRAM	YEAR/SEM/BATCH	EXAMINATION	DATE
B PHARM	1 year	MID I	

NAME OF THE SUBJECT: - HAP

SUBJECT CODE: BP101T

Regulation: R19

TIME: FROM 10.30:00 TO 12:00 PM

ANSWER ALL THE FOLLOWING QUESTIONS

MAXIMUM MARKS: 30 Marks

2×5=10M

1. (a) define anaemia and types of anaemias

2 M	Unit V	CO4	Remembering
-----	--------	-----	-------------

(b) write about haematocrit

2M	Unit III	CO4	Remembering
----	----------	-----	-------------

(c) write about skin glands

2M	Unit III	CO4	Remembering
----	----------	-----	-------------

(d) define hypertrophy and hyperplasia

2M	Unit V	CO4	Remembering
----	--------	-----	-------------

(e) write about muscle proteins

2M	Unit V	CO4	Remembering
----	--------	-----	-------------

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II. ANSWER ANY 1 OF THE FOLLOWING 10×1=10M

2) write a short on blood groups?

3) write a structure of skin?

4) write about the mechanism of haemopoiesis.

10M	Unit III	CO4	Remembering
-----	----------	-----	-------------

III. ANSWER ANY 2 OF THE FOLLOWING

5×2=10M

5) define and classify joints and write a note on synovial joints.

6) write a note on divisions of skeletal system and write about different types of bones.?

10M	UNIT V	CO5	Applying
-----	--------	-----	----------

5M	UNIT V	CO5	Remembering
----	--------	-----	-------------

5M	UNIT III	CO6	analyze
----	----------	-----	---------

21ER1R0039	YAKKANTI ANJANI	10		5	5	9			10	5	5	9				9			68
21ER1R0040	YANADI PRANITHA	10	5		5	9			10	5	5	9				9			52
21ER1R0041	YELEKERI SUMATHI	9		5	5	9			10	5	5	9				9			68
21ER1R0042	BOYA VINEELA (MGMT)	10		5	5	9			10		3	9				9			43
21ER1R0043	C VARSHITHA	10		5	5	9			10	3	3	9				9			55
21ER1R0044	DANISH	9	5		5	8			10	5	5	9				9			59
21ER1R0045	DASARI SUNITHA	9		5	5	9			10	5	4	8				9			60
21ER1R0047	GANGULA NEERAJA REDDY	9	5	4		10			9	5	5	9				8			52
21ER1R0048	GOLLA MADHUVANI	9		4	5	10			10	5	4	8				9			63
21ER1R0049	GONUGUNTLA SREEVANI	9		3	3	3			8	5	5	9				9			27
21ER1R0050	KODURU TEJASWINI	8		2	5	9			8	4	4	9				9			56
21ER1R0051	KOMMIREDDY VYSHNAVI	7	5	3		9			8	5	5	9				9			42
21ER1R0052	KUMMARI SINDHU	7		3	4				8	4	4	8				9			50
21ER1R0053	M.NEERAJA	7	4	3		9			10	5	5	9				9			62
21ER1R0054	M.SHARANYA	9		5	4	9			10		5	4				8			66
21ER1R0055	MANDATICHAVITLO LAKSHMI	9		4	4	8			8	4	4	8				8			22
21ER1R0056	N.MADHURI	10		5	5	9			10	5	5	9				9			69
21ER1R0057	NEERUKATTU SANDHYA	9		5	5	9			10	5	5	9				9			54
21ER1R0058	PALIVEL LEELA PRIYANKA	10		5	5	9			10	5	5	9				9			67
21ER1R0059	PINJARI PARVEEN	10	4		4	9			8	5	5	9				9			61
21ER1R0060	S.SREE VYSHNAVI	8	5		4	9			10	5	5	9				8			51
21ER1R0061	SHAIK AFIFA FATHIMA	10	5	3					9	3	4	9				9			66
21ER1R0062	SHEELAM CHAITHANYA	5		3	3				5	3	4	9				5			50
21ER1R0063	SOMAGATTU PUSHPAVATHI	9		5	5	9			8	4	5	8				8			36
21ER1R0064	SYED AFREEN	9		5	5	9			10	4		7				9			55
21ER1R0065	UMMANI SUNAYANA	10		5	5	9			10		5	8				8			44
21ER1R0066	VAKITI MOUNIKA	10		4	5				10	5	5	9				9			76
21ER1R0067	VANAGANI SRAVANI	9	5	4					8	5	4	9				9			34
21ER1R0068	ANGOLI VISWANATH	10		5	5	9			10		5	9				9			42
21ER1R0069	BARUKU HEMANTH SAGAR	9		4	4				9	5	4	8				8			52
21ER1R0070	CHEPURI PREM SAI	9		5	4				9	5	5	9				9			58
21ER1R0071	GOLLA VIKRAM	5		4	4				5	3	3								14
21ER1R0072	GOUNI JAGADEESH	9		4	4				8	3	2	8				7			30
21ER1R0073	KADIRI BHARATH	9		4	4				10	4	5	7				10			26
21ER1R0074	KURUVA MAHESH	10	5	5		9			10	4	5	10				10			62
21ER1R0075	LADIGONDA SIDDA RAMESH	10	5	5		9			8		5	9				9			63
21ER1R0076	MEKAPILLA MAHESH										4	3				4			37
21ER1R0077	PARADESI SHALEM RAJU	9	4	5					6	3	4	8				8			39
21ER1R0078	PATAN ASLAM KHAN	10	5	5					9	5	5	9				9			58
21ER1R0079	PATAN IRFAN KHAN	8	4		4				9	5	5	9				9			67
21ER1R0080	PERAPOGU KALYAN	10		5	4	9			10	5	5	9				9			60

CO-PO Matrix for the Subject MAP-1															
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	ATTAI
601															1.78
602															1.59
603															1.92
604															1.47
605															1.91
606															1.79

CO5	86.9	53.94	63.88	62	63.56	1.91
		53.94	58.7		59.92	1.79

ATTAI
NMEN
T
LEVEL
S

Student Name: Dr. Sanku de vait
 Enrollment No: 100120001
 Date of Birth: 1991 Year 3
 Name of the Subject: MAP - II

S.No	Date of the Assignment	Pages	Marks Awarded	Grade
1	Group theory Survey	1-2	10	A
2	Group actions/automata	3-4	10	A
3	Normal Reproductive	5-8	10	A


 Signature of the Teacher

General Instruction to Students

- 1. Bring this Assignment notes to College daily. Do not send them to your home and do not use this rough copy. Must maintain regularly & punctually.
- 2. Bring to college regularly and always keep time.
- 3. Wear uniform and proper College dress code.
- 4. Maintain discipline, do not use any mobile phone, smoking, drinking, etc.
- 5. Be respectful to the staff and towards all your teachers and staff.
- 6. Do not use any mobile phone and do not use any social media.

Student Name: D. J. Smith
 Student No.: 123456789
 Dept. & Semester: BA in Pol. Science
 Name of the Subject: HAB - III

Sr No.	Name of the Assignment	Pages	Work Available	Submitted
1	Geography Paper	1-2	✓	✓
2	History Paper / etc.	3-4	✓	✓
3	Public Reproductive	5-8	✓	✓
4				
5				


 Signature of the

General Instruction to Students

- 1. Submit assignment notes to College daily. Do not submit with assignment notes.
- 2. Submit assignments in a rough copy. Must maintain regularity & punctuality.
- 3. Submit assignments regularly and always be on time.
- 4. All assignments should be prepared and prepared College regularly.
- 5. Submit assignments when available and use all College facilities.
- 6. All assignments should be submitted to the college in a rough copy.
- 7. All assignments should be submitted to the college in a rough copy.
- 8. All assignments should be submitted to the college in a rough copy.



Jayaram Reddy Institute of Pharmacy

ASSTANT PROFESSOR

INSTRUCTIONS TO CANDIDATES

- 1. The duration of the exam is 3 hours.
- 2. The total marks are 100.
- 3. The questions are compulsory.

1	10	10	10	10	10	10	10	10	10
2	10	10	10	10	10	10	10	10	10
3	10	10	10	10	10	10	10	10	10
4	10	10	10	10	10	10	10	10	10
5	10	10	10	10	10	10	10	10	10
6	10	10	10	10	10	10	10	10	10
7	10	10	10	10	10	10	10	10	10
8	10	10	10	10	10	10	10	10	10
9	10	10	10	10	10	10	10	10	10
10	10	10	10	10	10	10	10	10	10



Signature of the Candidate

Writing from this Page

Foreign and Regional
Examination Department



Dr. K.V. Subba Reddy Institute of Pharmacy, Kurnool.

Recognized by AICTE, PC, New Delhi & Affiliated to JNTU Anantapur.

Approved by Government of Andhra Pradesh & MTC, Kurnool.

IIIrd Mid Examination of 202

Reg. No. 21EPIPO082

College Code
Year:
Branch:

Semester:

Subject: HAD 2

No. of Additional Books

INSTRUCTIONS TO THE CANDIDATES

- Candidates are not allowed after commencement of Examination, and are not allowed to leave before the closure of Examination.
- Read the particulars before answering the questions.
- Write at least 25 lines in every page.
- Write legibly and neatly and draw the diagrams when ever necessary.
- Nothing is to be written on the Question Paper except their Reg. Nos.

Q No.	1	2	3	4	5	6
a	1	3	3			8
b	1					
c	1					
d	1					
e	1					
Total	5	3	3			11

$$95 + 95 = \frac{19}{25}$$

Grand Total: 19/30

Signature of the Examiner

Start Writing from this Page

(A)

peptic ulcers are chronic most often solitary lesions that occur in any portion of the gastro intestinal tract, expressed exposed or aggressive action of acidic peptic secretion

(B)

CrREO: gastroesophageal reflux disease (CrREO) is defined as a condition with symptoms (or) the complication resulting from the reflux of gastric contents into oral or oesophagus on behind into

COURSE FILE - ACY 2021-22

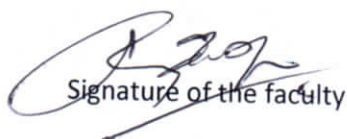
Bachelor of Pharmacy - I Year; II - Semester

Name of the course	PHARMACEUTICALORGANICCHEMISTRY-I (POC-I)
Course Code	BP202T
Credits / h	4 credit / 4 hours per week
Paper	Theory (BP202T) Practical (BP208P)
Instructor	P.T. NAGARAJU
Academic Session	21.07.2022 TO 30.10.2022

Check list:

S. No.	Description	Yes/NO
1	Details of course structure	yes
2	Course Description	yes
3	Course outcome	yes
4	Course outcome and Program outcome matrix	yes
5	Weekly Academic planner and Teaching plan	yes
6	Recommended reference Books	yes
7	Assessment tools, Rubrics and Scheme of examinations	yes
8	Course outcome assessment	yes
9	SWOC Analysis	yes
10	Beyond syllabus /other enrichment activities	yes
11	Overall remarks and improvement (compare with previous data)	yes
12	Course exit survey Feedback	yes
13	Recommendations for future action / Observations	yes
14	Annexures a. Attendance copy b. Question papers of Midterms /class test c. Model Answer scripts Best & Worst d. Assignment /Seminar allotment	

e. Model assignment/Seminar Best & Worst	
f. Model Practical record book/manual	
g. Any other assessment tools if any.	


Signature of the faculty


HOD


Principal

PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44
KURNOOL-518218 (A P)

Course File – B. Pharm I Year II semester – ACY 2021-22

Details of course structure

Name of the course	PHARMACEUTICALORGANICCHEMISTRY-I (POC-I)
Course Code	BP202T
Credits / h	4 credit / 4 hours per week
Paper	Theory (BP202T) Practical (BP208P)
Instructor	P.T. NAGARAJU
Academic Session	21.07.2022 TO 30.10.2022

1. Course Description

The theory course deals with: 1. The structure, name and the type of isomerism of the organic compound

2. write the reaction, name the reaction and orientation of reactions

3. account for reactivity/stability of compounds,

4. identify/confirm the identification of organic compound **Course outcome**

At the end of the theory course, the student will be able to

C202.1	acquire the knowledge and understanding of the basic experimental principles of pharmaceutical organic chemistry.
C202.2	Generalize the classification, nomenclature, structure and the type of isomerism of the organic compound.
C202.3	Review of important physical properties, reactions (and underlying mechanisms) and methods of preparation of various functional groups.
C202.4	List out reactivity/stability of compounds and intermediates forming in reactions.
C202.5	Demonstrate the identification of organic compound.
C202.6	Summarize the concepts of named reactions and its applications.

At the end of the practical course of experiments, the student will be able to

C208.1	Assessment of safety measures in organic chemistry laboratory and various laboratory techniques.
C208.2	Evaluation of steps involved in identification of unknown organic compound.

C208.3	State abilities to prepare suitable solid derivatives from organic compounds.
C208.4	Build skills to prepare stereo models containing various functional groups.
C208.5	Represent stereo models and its arrangement.
C208.6	Apply knowledge to assess safety, health and consequent responsibilities relevant to this.

2. Course outcome and Program outcome matrix

Dept. of Pharmaceutical Chemistry

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C202.1	3	-	-	-	-	-	-	-	-	-	-
C202.2	3	-	-	-	-	-	-	-	-	-	-
C202.3	3	-	2	-	-	-	-	-	-	-	-
C202.4	-	-	-	-	-	-	2	-	-	-	-
C202.5	0	-	-	-	-	0	-	-	-	-	-
C202.6	0	-	-	-	-	0	-	-	-	-	-

3. Weekly Academic planner and Teaching plan for theory contents delivered

Week	Hours	Unit	Contents	hours consumed
Week 1	4 h	1	Classification of Organic Compounds (1 hour). nomenclature of Organic Compounds (1 hour). Common and IUPAC systems of nomenclature of organic compounds (4 hours).	4
Week 2	3 h	1	10 Carbons open chain and carbocyclic compounds) (3 hours).	4
Week 3	4 h	2	SP ₃ hybridization in alkanes, Halogenation of alkanes, uses of paraffins. Stabilities of alkenes, SP ₂ hybridization in alkenes (3 hours).	4
Week 4	4 h	2	E ₁ and E ₂ reactions – kinetics, order of reactivity of alkyl halides, rearrangement of carbocations, Saytzeffs orientation and evidences. E ₁ verses E ₂ reactions, Factors affecting E ₁ and E ₂ reactions. Ozonolysis, electrophilic addition reactions of alkenes, Markownikoff's	4

			orientation, free radical addition reactions of alkenes, Anti Markownikoff's orientation. (4 hours).	
Week 5	4 h	2	Stability of conjugated dienes, Diel-Alder, electrophilic addition, free radical addition reactions of conjugated dienes, allylic rearrangement (3 hours).	4
Week 6	4 h	3	Alkyl halides* SN ₁ and SN ₂ reactions - kinetics, order of reactivity of alkyl halides, stereochemistry and rearrangement of carbocations. (3 hours).	4
Week 7	4 h	3	SN ₁ versus SN ₂ reactions, Factors affecting SN ₁ and SN ₂ reactions Structure and uses of ethylchloride, Chloroform, trichloroethylene, tetrachloroethylene, dichloromethane, tetrachloromethane and iodoform. (4 hours).	4
Week 8	4 h	3	Alcohols* - Qualitative tests, Structure and uses of Ethyl alcohol, Methyl alcohol, chlorobutanol, Cetosteryl alcohol, Benzyl alcohol, Glycerol, Propylene glycol(3 hours).	4
Week 9	4 h	4	Carbonyl compounds* (Aldehydes and ketones) Nucleophilic addition, Electromeric effect(3 hours).	3
Week 10	4 h	4	aldol condensation, Crossed Aldol condensation, Cannizzaro reaction, Crossed Cannizzaro reaction(3 hours).	4
Week 11	4 h	4	Benzoin condensation, Perkin condensation, qualitative tests, Structure and uses of Formaldehyde, Paraldehyde, Acetone, Chloral hydrate, Hexamine, Benzaldehyde, Vanilin, Cinnamaldehyde. (4 hour)	4
Week 12	4 h	5	Acidity of carboxylic acids, effect of substituents on acidity, inductive effect and qualitative tests for carboxylic acids(2 hour)	4
Week 13	4 h	5	amide and ester (2 hours)	3
Week 14	4 h	5	Structure and Uses of Acetic acid, Lactic acid, Tartaric acid, Citric acid, Succinic acid. Oxalic acid, Salicylic acid, Benzoic acid, Benzyl benzoate, Dimethyl phthalate, Methyl salicylate and Acetyl salicylic acid (4 hour).	5
Week 15	4 h	5	Aliphatic amines* - Basicity, effect of substituent on Basicity. Qualitative test, Structure and uses of Ethanolamine, Ethylenediamine, Amphetamine (2 hours).	4
Week 16	4 h	--	Revision	4

NOTE: Week 13, 14, 15 is not common for all branches as per syllabus but it has been taught to them, as we considered its very important for them. The recommendation has been forward to Academic development committee for further approval in BoS, and Academic Council.

Weekly Academic planner and Title of the experiments conducted

Week	Duration	Description of Activity	Type
------	----------	-------------------------	------

		/Experiments	
1	4h	To synthesize benzamide from ammonia and benzyl chloride	Experiment
2	4h	To synthesize 2,4,6 trinitrophenol from picric acid	Experiment
3	4h	To synthesize benzoic acid from benzaldehyde	Experiment
4	4h	To synthesize benzylalcohol from benzaldehyde	Experiment
5	4h	To synthesize benzylglycine from benzaldehyde and glycine	Experiment
6	4h	Molecular model	PBL approach
7	4h	Preliminary test	PBL approach
8	4h	Identification of unknown organic compound-I	Experiment
9	4h	Identification of unknown organic compound-II	Experiment
10	4h	Identification of unknown organic compound-III	Experiment
11	4h	Identification of unknown organic compound-IV	Experiment
12	4h	Identification of unknown organic compound-V	Experiment
13	4h	Identification of unknown organic compound-VI	Experiment
14	4h	Identification of unknown organic compound-VII	Experiment
15	4h	Revision / Correction of Records	--
16	4h	Revision / Correction of Records	--

1. Recommended reference Books

- Organic Chemistry by Morrison and Boyd
- Organic Chemistry by I.L. Finar, Volume-I
- Textbook of Organic Chemistry by B.S. Bahl & Arun Bahl.
- Organic Chemistry by P.L.Soni
- Practical Organic Chemistry by Mann and Saunders.
- Vogel's text book of Practical Organic Chemistry
- Advanced Practical organic chemistry by N.K.Vishnoi.
- Introduction to Organic Laboratory techniques by Pavia, Lampman and Kriz.
- Reaction and reaction mechanism by Ahluwalia/Chatwal.

11. Assessment tools, Rubrics and Scheme of examinations

6.1 Continuous assessment Rubrics

Program & Branch: B. Pharm - Pharmaceutical Chemistry

Practical							Theory					
Day to Day Assessment (5M)					Exam	TOTAL	Day to Day Assessment (10M)				Exam	Total
Att. (1)	Obs. (1)	Rec (1)	Skill (1)	Inter. (1)	10M	15 M	Att. (3)	Task. (2)	Inter. (2)	Self-Learning (3)	15	25

6.2 Final Scheme of Internal Examination and End Examinations (Model)

Semester II

Course code	Name of the course	Internal Assessment			Total	End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams			Marks	Duration	
			Marks	Duration				
BP201T	Human Anatomy and Physiology II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP202T	Pharmaceutical Organic Chemistry I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP203T	Biochemistry – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP204T	Pathophysiology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP205T	Computer Applications in Pharmacy – Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP206T	Environmental sciences – Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP207P	Human Anatomy and Physiology II – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP208P	Pharmaceutical Organic Chemistry I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP209P	Biochemistry – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP210P	Computer Applications in Pharmacy – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
BP211CV	Comprehensive Viva-Voce [†] - II	-	-	-	-	-	-	-
Total		80	125	20 Hrs	205	520	30 Hrs	725

* The subject experts at college level shall conduct examinations

[†] Non University Examination (NUE) and shall be graded as satisfactory (50% and above) / unsatisfactory (less than 50%)

6.3 Letter's grade and Grade point equivalent to % of marks and Performance:

Percentage of Marks Obtained	Letter Grade	Grade Point	Performance
90.00 – 100	O	10	Outstanding
80.00 – 89.99	A	9	Excellent
70.00 – 79.99	B	8	Good
60.00 – 69.99	C	7	Fair
50.00 – 59.99	D	6	Average
Less than 50	F	0	Fail
Absent	AB	0	Fail

A learner who remains absent for any end semester examination shall be assigned a letter grade of AB and a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.

12. Course outcome assessment

Theory Course

C202.1	acquire the knowledge and understanding of the basic experimental principles of pharmaceutical organic chemistry.
C202.2	Generalize the classification, nomenclature, structure and the type of isomerism of the organic compound.
C202.3	Review of important physical properties, reactions (and underlying mechanisms) and methods of preparation of various functional groups.
C202.4	List out reactivity/stability of compounds and intermediates forming in reactions.
C202.5	Demonstrate the identification of organic compound.
C202.6	Summarize the concepts of named reactions and its applications.

Practical Course

C208.1	Assessment of safety measures in organic chemistry laboratory and various laboratory techniques.
C208.2	Evaluation of steps involved in identification of unknown organic compound.
C208.3	State abilities to prepare suitable solid derivatives from organic compounds.
C208.4	Build skills to prepare stereo models containing various functional groups.
C208.5	Represent stereo models and its arrangement.
C208.6	Apply knowledge to assess safety, health and consequent responsibilities relevant to this.

7.1 Assessment tools

Name of Direct assessment tool	Type	Weightage (Marks)	Weightage (Marks)	Weightage (Marks)
		Theory	Practical Part A	Practical Part B
Day to Day	Formative	10	5	10
Midterm	Formative	15	10	15
End Examination	End Assessment	75	35	50
	Total	100	50	75

12.2 Calculation of Course assessment

a) Theory

Type assessment	Total students Appeared	Max. marks	Marks to % Set marks of 60%	No. students scored 60% & above	% Students to more than 60 % & above	Course outcome
Continuous	105	6	15	98	93.3%	6
End Exam	105	6	45	85	80.95%	6
Average Course outcome					75:25	6

b) Practical

Type assessment	Total students Appeared	Max. marks	Marks to % Set marks of 60%	No. students scored 60% & above	% Students to more than 60 % & above	Course outcome
Continuous	105	15	9	94	89.52	6
End Exam	105	35	21	105	100	6
Average Course outcome					75:25	6

c) Overall Assessment at the end of the Course

Type assessment	Total students Appeared	Max. marks	Marks to % Set marks of 60%	No. students scored 60% & above	% Students to more than 60 % & above	Course outcome
Theory	105	100	60	85	80.95	6
Practical	105	50	30	105	100	6

13. SWOC Analysis

Strength	Weakness
(S1) One of the leaders in the field of dermatology (S2) Products through good quality management before reaching the customer's hands.	(W10) There is no system integration between one part and another (W2) Irregular scheduling of the production (W3) Lack of management support for IT in the campus.
Opportunity	Threat
(O1) Partnership with strong raw material suppliers. (O2) The high need for quality data and information.	(T1) Data of chemicals is not upto date.

14. Beyond syllabus /other enrichment activities (Extra class /Tutorials/Invited sessions/other ICT activities/Student participation/workshop conducted/etc relevant to this course

S. No.	Date	Activity Name/Session/Topic	Relevant CO	Most relevant POs
1	25/09/19	Anti Markownikoff's orientation.	CO1	PO1, PO2
2	26/11/19	SN1 versus SN2 reactions	CO2	PO1, PO5
3	24/01/20	Qualitative test, Structure and uses of Ethanolamine, Ethylenediamine, Amphetamine	CO3	PO3, PO4

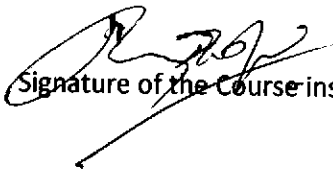
15. Overall remarks and improvement (compare with previous data)

Paper	% Pass in Previous Year	% Pass in this year	CO attained in previous year	CO attained in previous year
Theory	82%	85.9%	3	3
Practical	100%	100%	3	3

16. Course exit survey Feedback (overall feedback on course delivery and knowledge transferred)

Excellent	Very Good	Good	Fair	Bad
>90%	80-90 %	65-79 %	50-64%	<50%

81%	16%	3%	0%	0%
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Signature of the Course instructor


Program - HOD

Roll No	Student Name	Date												
			1	2	3	4	5	6	7	8	9	10		
22222222	S. Srinivasulu Reddy	27	A	A	1	2	3	4	5	6	7	8	9	10
22222222	S. Srinivasulu Reddy	46	1	2	3	4	5	6	7	8	9	10	11	12
22222222	T. Srinivasulu Reddy	17	1	2	3	4	5	6	7	8	9	10	11	12
22222222	T. Srinivasulu Reddy	40	A	B	A	1	2	3	4	5	6	7	8	9
22222222														
22222222	V. Venkateswara Reddy	27	A	1	2	3	4	5	6	7	8	9	10	11
22222222	V. Venkateswara Reddy	47	A	A	A	1	2	3	4	5	6	7	8	9
22222222	V. Venkateswara Reddy	34	A	A	A	A	A	A	A	A	A	1	2	3
22222222	V. Venkateswara Reddy	46	A	A	A	A	A	A	A	A	A	1	2	3
22222222	V. Venkateswara Reddy	1	A	A	A	A	A	A	A	A	A	1	2	3
22222222	G. Venkateswara Reddy	46	A	A	A	1	2	3	4	5	6	7	8	9
22222222	English	58	A	1	2	3	4	5	6	7	8	9	10	11
22222222	G. Venkateswara Reddy	36	A	A	A	1	2	3	4	5	6	7	8	9
22222222	G. Venkateswara Reddy	1	A	A	A	A	A	A	A	A	A	1	2	3
22222222	G. Venkateswara Reddy	41	A	1	2	3	4	5	6	7	8	9	10	11
22222222	G. Venkateswara Reddy	23	A	1	2	3	4	5	6	7	8	9	10	11
22222222	G. Venkateswara Reddy	41	A	1	2	3	4	5	6	7	8	9	10	11
22222222	K. Venkateswara Reddy	35	A	A	A	A	A	A	A	A	A	1	2	3
22222222	K. Venkateswara Reddy	54	A	A	A	A	A	A	A	A	A	1	2	3
22222222	K. Venkateswara Reddy	27	A	A	A	A	A	A	A	A	A	1	2	3
22222222	M. Venkateswara Reddy	27	A	A	A	A	A	A	A	A	A	1	2	3
22222222	M. Venkateswara Reddy	25	A	A	A	1	2	3	4	5	6	7	8	9
22222222	M. Venkateswara Reddy	67	A	A	A	A	A	A	A	A	A	1	2	3
22222222	N. Venkateswara Reddy	48	A	A	A	A	A	A	A	A	A	1	2	3
22222222	N. Venkateswara Reddy	36	A	A	A	A	A	A	A	A	A	1	2	3
22222222	P. Venkateswara Reddy	7	A	A	A	A	A	A	A	A	A	1	2	3
22222222	P. Venkateswara Reddy	34	A	1	2	3	4	5	6	7	8	9	10	11
22222222	P. Venkateswara Reddy	24	A	1	2	3	4	5	6	7	8	9	10	11
22222222	P. Venkateswara Reddy	27	A	1	2	3	4	5	6	7	8	9	10	11
22222222	P. Venkateswara Reddy	42	A	1	2	3	4	5	6	7	8	9	10	11



Dr. K. V. SUBBA REDDY INSTITUTE OF PHARMACY
(Approved by AICTE & PCI New Delhi, Permanent Affiliated to JNTU Anantapur, Anantapuramu,
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Recognized U/s 12(f) and 2B of UGC act 1956
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PROGRAM	YEAR/SEM/BATCH	EXAMINATION	DATE
B PHARM	I year	MID II	

NAME OF THE SUBJECT: - PHARMACEUTICAL ORGANIC CHEMISTRY I

SUBJECT CODE: BP202T

Regulation: R19

TIME: FROM 10.30:00 TO 12:00 PM

I. ANSWER ALL THE FOLLOWING QUESTIONS

MAXIMUM MARKS: 30 Marks
2×5=10M

1.a) Draw the structure and uses for the compound ETHANOLAMINE.

2 M	Unit V	CO4	Remembering
-----	--------	-----	-------------

B) Draw the structure and uses for the compound CETOSTERYL ALCOHOL.

2M	Unit III	CO4	Remembering
----	----------	-----	-------------

C) Draw the structure and uses for the compound CHLORO BUTANOL.

2M	Unit III	CO4	Remembering
----	----------	-----	-------------

D) Draw the structure and uses for the compound TARTARIC ACID.

2M	Unit V	CO4	Remembering
----	--------	-----	-------------

E) Draw the structure and uses for the compound AMPHETAMINE.

2M	Unit V	CO4	Remembering
----	--------	-----	-------------

II. ANSWER ANY 1 OF THE FOLLOWING
10×1=10M

2. Define alcohol? Write the qualitative tests for alcohols.

10M	Unit III	CO4	Remembering
-----	----------	-----	-------------

10M	UNIT V	CO5	Applying
-----	--------	-----	----------

3. Write the preparation of carboxylic acids and its chemical reaction.

III. ANSWER ANY 2 OF THE FOLLOWING **5×2=10M**

4. Define amides? Write the qualitative tests for amides?

5M	UNIT V	CO5	Remembering
----	--------	-----	-------------


PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H-7,
KURNOOL-518218 (A.P.)

Dr. K. V. SUBBA REDDY INSTITUTE OF PHARMACY

*(Approved by AICTE & PCI New Delhi, Permanent Affiliated to JNTU Anantapur, Anantapuramu,
MoU with Government General Hospital, KMC, Kurnool)*

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Fax: 08518-287618



5. write the Preparation of alcohols.

6. write about SN1 versus SN2 reaction.

5M	UNI T III	CO6	analyze
----	--------------	-----	---------

5M	Unit III	CO6	Applying
----	----------	-----	----------


PRINCIPAL

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All India Council for Technical Education
Dr. K. V. SUBBA REDDY
INSTITUTE OF PHARMACY

Approved by the PCI, New Delhi, Part of the Institute of Pharmacy
 (IOP) with Government of India Approval No. 100/1997
 No. 44/000/00000/00000/00000/00000/00000/00000/00000/00000/00000

Certificate

Department of Pharmaceutical Organic Chemistry

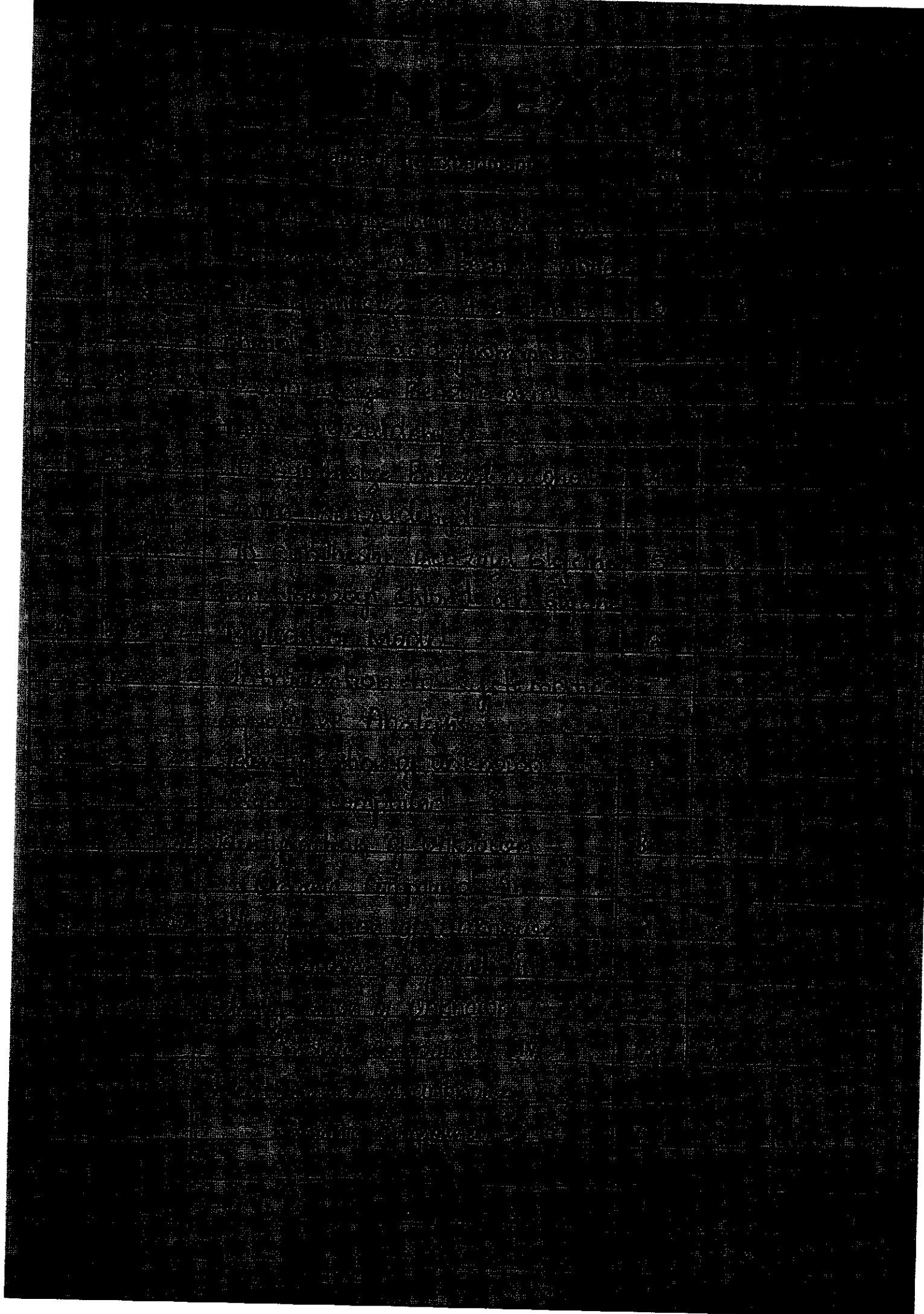
Certified that this is the bonafide record of the work done by

Mr. Shrik. Sashya of Bachelor of
Pharmacy in Pharmaceutical Organic Chemistry


 Head of the Department

HEAD
 Department of
 Chemistry/Analytical
 Institute of Pharmacy
 All India Council for Technical Education
 New Delhi

For the Institute of Pharmacy, New Delhi



Fasten the Adhesive Answer Papers Separately

1547524



Dr. K.V. Subba Reddy Institute of Pharmacy, Kuvempu

Approved by AICTE, PC-1, New Delhi & Permanently Affiliated to JNTU, Hyderabad

WCU with Government General Hospital, Kuvempu

IVth Mid Examination of _____

College Code: 512

Reg. No: 1547524

Year: 1st year

Semester: II Sem

Branch: Pharmacy

Subject: Pharmaceutical Organic Chemistry

INSTRUCTIONS TO THE CANDIDATES

1. Candidates are not allowed after commencement of Examination, and are not allowed to leave before the close of Examination.
2. Fill in the particulars before answering the questions.
3. Write at least 25 lines in every page.
4. Write legibly and neatly and draw the diagrams when not necessary.
5. Nothing is to be written on the Question Paper except the Reg. No.

Q No.	1	2	3	4	5	6
a	2	1				
b	2					
c	2					
d	2					
e	2					
Total	10	10	10	10	10	10

15
15

Grade: 1
Signature of the Examiner

Start Writing from this Page

Alcohol Condensation

Alcohol condensation process is used to yield or synthesis of saturated α -hydroxy carbonyl compounds and this alcohol condensation contains 2 hydrogen atoms when two molecules of aldehydes or ketones or same carbonyl compounds together



