



VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN

Enikepadu, VIJAYAWADA – 521108

Telephone No: +91 74165 60999

Fax No: +91 866 2844999

Mail: vijayapharmacyfw@gmail.com

Permitted by Govt. of A.P; Approved by AICTE, New Delhi
Pharmacy Council of India, New Delhi & Affiliated to JNTUK, Kakinada
ISO 9001:2015 Certified Institution


AY: 2019-2020

LIST OF PROGRAMS FOR SLOW LEARNER'S

Based on the socioeconomic backgrounds and the assessment criteria's, the listed Slow Learners are given the opportunity to improve their skills through the following programs.

- Mentor counselling to support and guide the student.
- Special tutorials to revise the topics.
- Special Communication classes to improve soft skills.
- Remedial classes to improve knowledge on backlog subjects.
- Question banks of different subjects to focus on important topics.
- Old question papers discussion regarding exam pattern.




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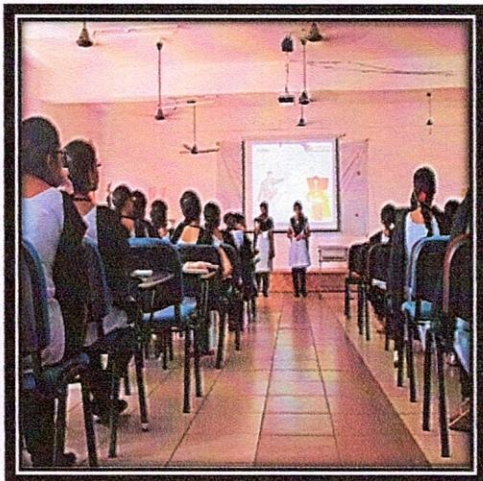
Mail: vijayapharmacyfw@gmail.com

SPECIAL PROGRAMS FOR SLOW LEARNERS

Mentor-Mentee Counselling



Communication Skills Special classes




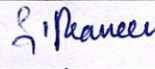



Principals
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ENIKEPADU, VIJAYAWADA-521108

III/IV B.PHARMACY/ I SEM
SPECIAL TUTORIAL CLASSES TIMETABLE 2019-2020

Duration: 17/06/2019 to 13/07/2019 (4wks)

Day	Time	Name of the Subject	Name of the Staff	Staff Sign
Monday	4.00-5.00 PM	Medicinal Chemistry-II (BP501T)	Ms. B. Sravani	
Tuesday	4.00-5.00 PM	Industrial Pharmacy-I (BP502T)	Mr. S. Praveen	
Wednesday	4.00-5.00 PM	Pharmacology-II (BP503T)	Mrs. A. Bhavana	
Thursday	4.00-5.00 PM	Pharmacognosy & Phytochemistry-II (BP504T)	Mrs. M. Vani	
Friday	4.00-5.00 PM	Pharmaceutical Jurisprudence (BP505T)	Mrs. G. Madhavi	


Principal

(Dr. K. Padmalatha)

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PIN - 521 108

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Register

Month : June, July
 Year : 2019-20

	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Remarks
10																						
28/6	1/7	2/7	3/7	4/7	5/7	8/7	9/7	16/7	11/7	12/7												
9	10	11	12	13	14	15	16	17	18	19												
9	10	11	12	13	14	15	16	17	18	19												
9	10	11	12	13	14	15	16	17	18	19												
10	10	11	12	13	14	15	16	17	18	19												
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9	10	11	12	13	14	15	16	17	18	19												
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9	10	11	12	13	14	15	16	17	18	19												
10	11	12	13	14	15	16	17	18	19													
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10	11	12	13	14	15	16	17	18	19	20												
9	10	11	12	13	14	15	16	17	18	19												
10	11	12	13	14	15	16	17	18	19													
9	10	11	12	13	14	15	16	17	18													

~~licial and Toilet preparations Act~~

H₁-antagonists, H₂-antagonists
 Industrial pharmacy-I
 Anti-Hyperlipidaemics
 Alkaloids
 Meiotic and psychotropic drug substances
 Genetic probe pump inhibitors
 Industrial pharmacy-I
 Drugs used in the treatment of
 IPR
 &c Act - Manufacture of drugs


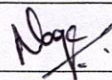



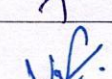
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ENIKEPADU, VIJAYAWADA-521108

I/VI PHARM. D

SPECIAL TUTORIAL CLASSES TIME TABLE 2019-2020

Duration: 23/09/2019 to 19/10/2019 (4 wks)

Day	Time	Name of the Subject	Name of the Staff	Staff Sign
Monday	4.00-5.00 PM	Human Anatomy and Physiology (T1101)	Mrs. D. Santhi Krupa	
Tuesday	4.00-5.00 PM	Pharmaceutics (T1102)	Mrs. P.M.M.Naga Lakshmi Varma	
Wednesday	4.00-5.00 PM	Medicinal Biochemistry (T1103)	Mrs. G. Pramoda	
Thursday	4.00-5.00 PM	Pharmaceutical Organic Chemistry (T1104)	Mrs. D. Prasanna	
Friday	4.00-5.00 PM	Pharmaceutical Inorganic Chemistry (T1105)	Mrs. D. Vijaya Durga	
Saturday	4.00-5.00 PM	Remedial Mathematics (T1106)	Mr. V. Srinivas	


Principal

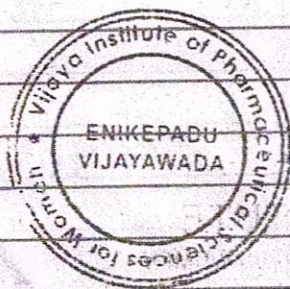
(Dr. K. Padmalatha)
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PIN - 521 108

Name of the Office: I phasm D
special tutorial class 2019-20

Attendance

S. No.	NAME	Designation	1	2	3	4	5	6	7	8	9	10
			23/12	24/12	25/12	26/12	27/12	28/12	29/12	30/12	31/12	01/01
1.	U. Swapna	197NIT0004	1	2	3	4	5	6	7	8	9	10
2	b. Vasa Lakshmi	197NIT0011	1	2	3	4	5	6	7	8	9	10
3	p. Anura	197NIT0017	1	2	3	4	5	6	7	8	9	10
4	B. Ester Rani	197NIT0018	1	2	3	4	5	6	7	8	9	10
5	T. Sanya Sri Valli	197NIT0019	1	2	3	4	5	6	7	8	9	10
6	D. Latha Reddy	197NIT0021	1	2	2	3	4	5	6	7	8	9
7	G. Sushaitha	197NIT0023	1	2	3	4	5	6	7	8	9	10
8	T. Gowthami	197NIT0024	1	2	3	4	5	6	7	8	9	10
9	G. Lavanya	197NIT0025	1	2	3	4	5	5	6	7	8	9


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Haemopoietic system, structure of cell.
 Prescription, monophasic liquid dosage forms
 factors affecting enzyme activity, drug classification
 Nucleophilic Reactions.
 Volumetric Analysis & Error
 Chromatogram
 Cardiovascular system
 Precipitation titrations, Redox reactions
 Free Radical chain Reactions
 Structure of Neuron and its functions.

Register

Month : Sept
 Year : 2019-20

11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Remarks
15/10	16/10	17/10	18/10	19/10																	
11	12	13	14	15																	
11	12	13	14	15																	
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 <p>VIJAYA INSTITUTE PHARMACEUTICAL SCIENCES FOR WOMEN ENIKEPADU VIJAYAWADA 521 108</p>																					


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Biphasic liquid dosage forms
 Enzyme Inhibitor types
 Free Radical chain reactions
 Various Monographs
 Integration of Defereulbut Epudon

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III/IV B.PHARMACY/ I SEM
COMMUNICATION SKILLS SPECIAL CLASSES
TIMETABLE 2019-2020

Duration: 15/07/2019 to 27/07/2019 (2wks)

Day	Time	Name of the Subject	Name of the Staff	Staff Sign
Monday	4.00-5.00 PM	Communication Skills	Mrs. V. Vishnu Vandana Devi	
Tuesday	4.00-5.00 PM			
Wednesday	4.00-5.00 PM			
Thursday	4.00-5.00 PM			
Friday	4.00-5.00 PM			
Saturday	4.00-5.00 PM			



Principal
(Dr. K. Padmalatha)

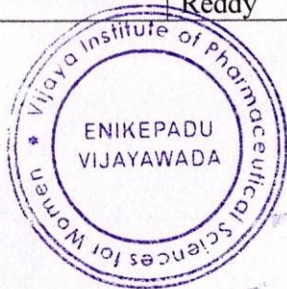
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III B. PHARMACY/ I SEM COMMUNICATION SKILLS SPECIAL CLASSES ATTENDANCE SHEET

AY: 2019-2020

Reg No	Name of the Student	15/7/19	16/7	17/7	18/7	19/7	20/7	22/7	23/7	25/7	26/7	27/7
177N1R0011	V. Ramya Sri	V. Ramya Sri	V. Ramya Sri	V. Ramya Sri	V. Ramya Sri	V. Ramya Sri	V. Ramya Sri	V. Ramya Sri	V. Ramya Sri	V. Ramya Sri	V. Ramya Sri	V. Ramya Sri
177N1R0037	B. Uma Devi	B. Uma Devi	B. Uma Devi	B. Uma Devi	B. Uma Devi	B. Uma Devi	B. Uma Devi	B. Uma Devi	A	B. Uma Devi	B. Uma Devi	B. Uma Devi
177N1R0039	P. Kavya	P. Kavya	P. Kavya	P. Kavya	P. Kavya	P. Kavya	P. Kavya	P. Kavya	P. Kavya	P. Kavya	P. Kavya	P. Kavya
177N1R0042	K. Hima bindu	K. Hima bindu	K. Hima bindu	K. Hima bindu	K. Hima bindu	A	K. Hima bindu	K. Hima bindu	K. Hima bindu	K. Hima bindu	K. Hima bindu	K. Hima bindu
177N1R0045	T. Sandhya Rani	T. Sandhya Rani	T. Sandhya Rani	T. Sandhya Rani	T. Sandhya Rani	T. Sandhya Rani	T. Sandhya Rani	T. Sandhya Rani	T. Sandhya Rani	T. Sandhya Rani	T. Sandhya Rani	T. Sandhya Rani
177N1R0047	M. Rama Gayathri	M. Rama Gayathri	M. Rama Gayathri	A	M. Rama Gayathri	M. Rama Gayathri	M. Rama Gayathri	M. Rama Gayathri	M. Rama Gayathri	M. Rama Gayathri	M. Rama Gayathri	M. Rama Gayathri
177N1R0048	Ch. Uma devi	Ch. Uma devi	Ch. Uma devi	Ch. Uma devi	Ch. Uma devi	Ch. Uma devi	Ch. Uma devi	Ch. Uma devi	Ch. Uma devi	Ch. Uma devi	Ch. Uma devi	Ch. Uma devi
177N1R0049	T. Bhavana	T. Bhavana	T. Bhavana	T. Bhavana	T. Bhavana	T. Bhavana	T. Bhavana	T. Bhavana	T. Bhavana	T. Bhavana	T. Bhavana	T. Bhavana
177N1R0051	K. Sree Sowmya	K. Sree Sowmya	K. Sree Sowmya	K. Sree Sowmya	K. Sree Sowmya	K. Sree Sowmya	K. Sree Sowmya	K. Sree Sowmya	K. Sree Sowmya	K. Sree Sowmya	A	K. Sree Sowmya
177N1R0053	K. Ramya	K. Ramya	K. Ramya	K. Ramya	K. Ramya	K. Ramya	K. Ramya	K. Ramya	K. Ramya	K. Ramya	K. Ramya	K. Ramya
177N1R0054	S. Mounika	S. Mounika	S. Mounika	S. Mounika	S. Mounika	S. Mounika	S. Mounika	S. Mounika	S. Mounika	S. Mounika	S. Mounika	S. Mounika
177N1R0056	Sk. Shakirunnisa	Sk. Shakirunnisa	Sk. Shakirunnisa	Sk. Shakirunnisa	Sk. Shakirunnisa	Sk. Shakirunnisa	A	Sk. Shakirunnisa	Sk. Shakirunnisa	Sk. Shakirunnisa	Sk. Shakirunnisa	Sk. Shakirunnisa
177N1R0059	M. N. L. Manasa Reddy	M. N. L. Manasa Reddy	M. N. L. Manasa Reddy	M. N. L. Manasa Reddy	M. N. L. Manasa Reddy	M. N. L. Manasa Reddy	M. N. L. Manasa Reddy	M. N. L. Manasa Reddy	M. N. L. Manasa Reddy	M. N. L. Manasa Reddy	M. N. L. Manasa Reddy	M. N. L. Manasa Reddy



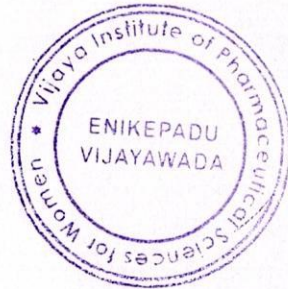

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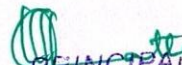
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III B.PHARMACY/ I SEM COMMUNICATION SKILLS SPECIAL CLASSES ATTENDANCE SHEET

AY: 2019-2020

Reg No	Name of the Student	15/7/19	16/7	17/7	18/7	19/7	20/7	22/7	23/7	25/7	26/7	27/7	
177N1R0060	R. Vyshnavi	R. Vysh	R. Vysh	R. Vysh	R. Vysh	R. Vysh	R. Vysh	R. Vysh	R. Vysh	R. Vysh	R. Vysh	R. Vysh	
177N1R0087	K. Mounika	K. Mounika	K. Mounika	K. Mounika	A	K. Mounika	K. Mounika	A	K. Mounika	K. Mounika	K. Mounika	K. Mounika	
177N1R0090	D. Sushma	D. Sushma	D. Sushma	D. Sushma	D. Sushma	D. Sushma	D. Sushma	D. Sushma	D. Sushma	A	D. Sushma	D. Sushma	
177N1R0091	K. Manasa	K. Manasa	K. Manasa	K. Manasa	K. Manasa	K. Manasa	A	K. Manasa	K. Manasa	K. Manasa	K. Manasa	K. Manasa	





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II/VI PHARM.D
COMMUNICATION SKILLS SPECIAL CLASSES
TIMETABLE 2019-2020

Duration: 04/11/2019 to 23/11/2019 (3wks)

Day	Time	Name of the Subject	Name of the Staff	Staff Sign
Monday	4.00-5.00 PM	Communication Skills	Mrs. V. Vishnu Vandana Devi	
Wednesday	4.00-5.00 PM			
Friday	4.00-5.00 PM			





Principal
(Dr. K. Padmalatha)

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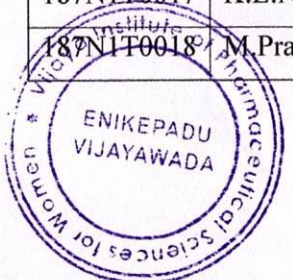
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II PHARM D COMMUNICATION SKILLS SPECIAL CLASSES ATTENDANCE SHEET

AY: 2019-2020

Reg No	Name of the Student	4/11/19	6/11	8/11/19	11/11/19	15/11/19	20/11/19	22/11/19						
187N1T0002	A. Mamatha	A. Mamatha	A. Mamatha	A. Mamatha	A. Mamatha	A. Mamatha	A	A. Mamatha						
187N1T0003	D. Amruthavalli	D. Valli	D. Valli	D. Valli	D. Valli	D. Valli	D. Valli	D. Valli						
187N1T0005	Karishma Beg	Karishma	Karishma	Karishma	Karishma	Karishma	Karishma	Karishma						
187N1T0006	B. Priyankasri	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka						
187N1T0007	CH.M. Naga Mallika	Mallika	Mallika	Mallika	Mallika	Mallika	Mallika	Mallika						
187N1T0009	G. Komali	G. Komali	G. Komali	G. Komali	G. Komali	G. Komali	G. Komali	G. Komali						
187N1T0010	G. Supriya	Sup	Sup	Sup	Sup	Sup	Sup	Sup						
187N1T0013	K. Naga Sunandini	K. Naga Sunandini	K. Naga Sunandini	K. Naga Sunandini	K. Naga Sunandini	K. Naga Sunandini	K. Naga Sunandini	K. Naga Sunandini						
187N1T0014	K. Sravani	K. Sravani	K. Sravani	K. Sravani	K. Sravani	A	K. Sravani	K. Sravani						
187N1T0015	K. Sreevalli	K. Sreevalli	K. Sreevalli	K. Sreevalli	K. Sreevalli	K. Sreevalli	K. Sreevalli	K. Sreevalli						
187N1T0016	K.L. Vardhani	K. Vardhani	K. Vardhani	K. Vardhani	K. Vardhani	K. Vardhani	K. Vardhani	K. Vardhani						
187N1T0017	K.L.N Saipriya	K.L.N Saipriya	K.L.N Saipriya	K.L.N Saipriya	K.L.N Saipriya	K.L.N Saipriya	K.L.N Saipriya	K.L.N Saipriya						
187N1T0018	M. Pravallika	M. Pravallika	M. Pravallika	M. Pravallika	M. Pravallika	M. Pravallika	M. Pravallika	M. Pravallika						





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4/1/19 6/1/19 8/1/19 11/1/19 15/1/19 20/1/19 22/1/19

187N1T0019	M.Prasanthi	M. Prasanthi	M. Prasanthi	M. Prasanthi	M. Prasanthi	M. Prasanthi	M. Prasanthi						
187N1T0024	Sk. Ujefa	Ujefa	Ujefa	Ujefa	Ujefa	Ujefa	Ujefa						
187N1T0026	U.Sravani	Sravani	Sravani	Sravani	Sravani	Sravani	Sravani						
187N1T0030	K. Vedha Sri	Vedha Sri	Vedha Sri	Vedha Sri	Vedha Sri	Vedha Sri	Vedha Sri						





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I/VI PHARM.D
COMMUNICATION SKILLS SPECIAL CLASSES
TIMETABLE 2019-2020

Duration: 02/12/2019 to 21/12/2019 (3wks)

Day	Time	Name of the Subject	Name of the Staff	Staff Sign
Monday	4.00-5.00 PM	Communication Skills	Mrs. V. Vishnu Vandana Devi	
Wednesday	4.00-5.00 PM			
Friday	4.00-5.00 PM			




Principal

(Dr. K. Padmalatha)

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I PHARM D COMMUNICATION SKILLS SPECIAL CLASSES ATTENDANCE SHEET

AY: 2019-2020

Reg No	Name of the Student	2/12/19	4/12/19	6/12/19	9/12/19	10/12/19	11/12/19						
197N1T0004	U. Swapna	U. Swapna	U. Swapna	U. Swapna	U. Swapna	U. Swapna	U. Swapna						
197N1T0011	K. Varalakshmi	K. Varalakshmi	K. Varalakshmi	K. Varalakshmi	K. Varalakshmi	K. Varalakshmi	K. Varalakshmi						
197N1T0017	P. Aruna	Aruna	Aruna	Aruna	Aruna	Aruna	Aruna						
197N1T0018	B. Ester Rani	B. Ester Rani	A	B. Ester Rani	B. Ester Rani	B. Ester Rani	B. Ester Rani						
197N1T0019	T. Satya Sri Valli	T. Sri Valli	T. Sri Valli	T. Sri Valli	T. Sri Valli	T. Sri Valli	T. Sri Valli						
197N1T0021	D. Latha Madhuri	D. Latha	D. Latha A	D. Latha	D. Latha	D. Latha	D. Latha						
197N1T0023	G. Sucharitha	G. Sucharitha	G. Sucharitha	G. Sucharitha	G. Sucharitha	G. Sucharitha	G. Sucharitha						
197N1T0024	T. Gowtami	T. Gowtami	A	T. Gowtami	T. Gowtami	T. Gowtami	T. Gowtami						
197N1T0025	G. Lavanya	G. Lavanya	G. Lavanya	G. Lavanya	G. Lavanya	G. Lavanya	A						




(Signature)
PRINCIPAL

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IV/VI PHARM. D
REMEDIAL CLASSES TIME TABLE 2019-2020

Duration: 28/10/2019 to 09/11/2019

Day	Time	Name of the Subject	Name of the Staff	Staff Sign
Monday	4.00-5.00 PM	Biostatistics and Research Methodology (T4104)	Mr. V. Srinivas	
Wednesday				
Friday				


Principal

(Dr. K. Padmalatha)

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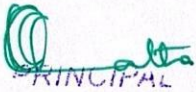
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Enikepadu, Vijayawada – 521108

IV Pharm D REMEDIAL CLASSES ATTENDANCE SHEET

A.Y: 2019-2020

Subject Name: Biostatistics and Research Methodology (T4104)										
Reg No	Name of the Student	Date:								
		28/10/19	30/10/19	1/11/19	4/11/19	5/11/19	6/11/19			
157N1T0024	M. Sandhya	M. sandhya	M. sandhya	M. sandhya	M. sandhya	M. sandhya	M. sandhya			
157N1T0029	Ch. Sai	Ch. Sai	Ch. Sai	Ch. Sai	Ch. Sai	Ch. Sai	Ch. Sai			


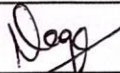






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I/VI PHARM. D
REMEDIAL CLASSES TIME TABLE 2019-2020

Duration: 28/10/19 to 09/11/19

Day	Time	Name of the Subject	Name of the Staff	Staff Sign
Monday	4.00-5.00 PM	Human Anatomy and Physiology (T1101)	Mrs. D. Santhi Krupa	
Tuesday	4.00-5.00 PM	Pharmaceutics (T1102)	Mrs. P.M.M.Naga Lakshmi Varma	
Wednesday	4.00-5.00 PM	Pharmaceutical Organic Chemistry (T1104)	Mrs. D.Prasanna	
Friday	4.00-5.00 PM	Remedial Mathematics (T1106)	Mr. V. Srinivas	


Principal
(Dr. K. Padmalatha)

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I Pharm D REMEDIAL CLASSES ATTENDANCE SHEET

A.Y: 2019-2020

Subject Name: Human Anatomy and Physiology (T1101)		Date:	1/11/19	4/11/19	8/11/19				
Reg No	Name of the Student	Date:	1/11/19	4/11/19	8/11/19				
187N1T0005	B. Karishma	Karishma	Karishma	Karishma	Karishma				
187N1T0013	K. N. Sunandini	K. Naga Sunandini	K. Naga Sunandini	K. Naga Sunandini	K. Naga Sunandini				
187N1T0014	K. Sravani	K. Sravani	K. Sravani	K. Sravani	K. Sravani				
187N1T0024	Sk. Ujefa	Ujefa	Ujefa	Ujefa	Ujefa				
Subject Name: Pharmaceutics (T1102)									
Reg No	Name of the Student	Date:	9/11/19	5/11/19	11/11/19	12/11/19			
187N1T0024	Sk. Ujefa	Ujefa	Ujefa	Ujefa	Ujefa	Ujefa			
Subject Name: Pharmaceutical Organic Chemistry (T1104)									
Reg No	Name of the Student	Date:	30/10/19	6/11/19	15/11/19				
187N1T0005	B. Karishma	Karishma	Karishma	Karishma	Karishma				
187N1T0009	G. Komali	G. Komali	G. Komali	G. Komali	G. Komali				
187N1T0010	G. Supriya	Supriya	Supriya	Supriya	Supriya				
187N1T0013	K. N. Sunandini	K. Naga Sunandini	K. Naga Sunandini	K. Naga Sunandini	K. Naga Sunandini				
187N1T0014	K. Sravani	K. Sravani	K. Sravani	K. Sravani	K. Sravani				
187N1T0024	Sk. Ujefa	Ujefa	Ujefa	Ujefa	Ujefa				




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187N1T0028	V. Anjana. SreeSatya	V.A Sreesatya	V.A sreesatya	V.A Sreesatya				
Subject Name: Remedial Mathematics (T1106)								
Reg No	Name of the Student	Date:						
187N1T0002	A.Mamatha	3/11/19	2/11/19	7/11/19	8/11/19			
187N1T0003	D.Amrutha valli	D.Valli	D.Valli	Valli	Valli			
187N1T0005	B. Karishma	Karishma	Karishma	Karishma	Karishma			
187N1T0006	B.Priyanka sri	Priyanka	Priyanka	Priyanka	Priyanka			
187N1T0007	Ch..M.Naga mallika	Mallika	Mallika	Mallika	Mallika			
187N1T0009	G.Komali	G.Komali	G.Komali	G.Komali	G.Komali			
187N1T0010	G. Supriya	Sup	Sup	Sup	Sup			
187N1T0012	K.Thanmayee	KT	KT	KT	KT			
187N1T0013	K. N. Sunandini	K.Naga Sunandini	K.Naga Sunandini	K.Naga Sunandini	K.Naga Sunandini			
187N1T0014	K. Sravani	K.Sravani	K.Sravani	K.Sravani	K.Sravani			
187N1T0015	K.Sreevalli	K.Sree Valli	K.Sree Valli	K.Sree Valli	K.Sree Valli			
187N1T0016	K.L.Vardhini	K.Vardhani	K.Vardhani	K.Vardhani	K.Vardhani			
187N1T0017	K.L.N.Saipriya	K.L.N. Saipriya	K.L.N. Saipriya	K.L.N. Saipriya	K.L.N. Saipriya			
187N1T0018	M.Pravallika	Pravallika	Pravallika	Pravallika	Pravallika			
187N1T0019	M.Prasanthi	M.Prasanthi	M.Prasanthi	M.Prasanthi	M.Prasanthi			
187N1T0024	Sk. Ujefa	Ujefa	Ujefa	Ujefa	Ujefa			
187N1T0026	U.Sravani	Sravani	Sravani	Sravani	Sravani			
187N1T0028	V. A. SreeSatya	V.A. Sreesatya	V.A. Sreesatya	V.A. Sreesatya	V.A. Sreesatya			
187N1T0030	K.Vedhasri	Vedhasri	Vedhasri	Vedhasri	Vedhasri			



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I B. Pharm / I Sem

BP- 102T. PHARMACEUTICAL ANALYSIS-I QUESTION BANK

Unit I:

1. Define Primary Standard and write the conditions of a primary standard?
2. Write different techniques of analysis and different methods to express concentration?
3. What are the different sources of impurities in medicinal agents?
4. Write the principle, procedure and standardisation of 0.1 N Potassium Permanganate and ceric ammonium sulphate?
5. Define Accuracy and Precision? write Different types of Errors?
6. Write about different sources of Errors?
7. What are the different methods to minimise Errors and write about sources of errors?
8. Write about the history of Indian Pharmacopoeia?
9. Write the principle and procedure involved in limit test for Chlorides, Iron and Arsenic?


Unit II:

1. Write the classification of acid base titrations?
2. Describe the theories of acid base Indicators?
3. Write a note on Neutralisation curves?
4. What are different solvents used in Non-Aqueous titration?
5. Describe about Acidic Titrants and Basic Titrants?
6. Write the Procedure involved in the estimation of Sodium Benzoate?
7. Write the Procedure involved in the estimation of Ephedrine HCl?
8. Assay of ammonium Chloride by Acid Base titration?

Unit III:

1. Define Precipitation and write different methods of Precipitation titrations?
2. Assay of Sodium Chloride by Precipitation Titrations?
3. Define Complexometry and write the classification of Metal Ion indicators?
4. Write about Masking and Demasking agents with Examples?
5. Assay of Calcium Gluconate by Complexometry?




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6. Write the Principle and steps involved in Gravimetry?
7. Write a short note on Co-Precipitation and Post precipitation?
8. Assay of Barium sulphate by Gravimetry?
9. Write a short note on Diazotization titration?


Unit IV:

1. Define Oxidation and reduction with examples?
2. Write the principle and application of Iodometry and Iodimetry?
3. Write the principle and application of Cerimetry?
4. Write the principle and application of Titration with Potassium Iodate?

Unit V:

1. Write about Conductivity cell?
2. Write the construction of Electrochemical cell?
3. Write the construction and working of Reference Electrodes?
4. Write the construction and working of Indicator Electrodes?
5. Write different methods to detect endpoint in Potentiometric titrations?
6. Write a note on Illkovic equation?
7. Write the construction and working of Dropping mercury electrode?
8. Write the construction and working of Rotating platinum electrode?




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I Pharm .D

T1101. HUMAN ANATOMY AND PHYSIOLOGY QUESTIONS

Chapter 1: Scope of anatomy and physiology

1. Define Anatomy and Physiology.
2. Define anatomical position, sagittal plane.
3. Mention the descriptive terms used in Anatomy.

Chapter 2: Structure of cell-its components and their functions.

1. Explain the structure and functions of cell membrane
2. Describe the functions of Golgi complex and mitochondria.
- 3 Draw a neat labeled diagram of cell and write the functions of nucleus.
4. Distinguish between rough and smooth endoplasmic reticulum (ER). What are the functions of ER?
5. Write the functions of mitochondria.

Chapter 3: Elementary tissues of the human body

1. Classify tissues with examples.
- 2 Explain the differences among skeletal, smooth and cardiac muscles.
3. Explain the structure and functions of neuron.
4. Classify muscular tissue with examples.
5. Classify connective tissue with examples.
6. Classify simple epithelium with examples.
7. Classify compound epithelium with examples.


Chapter 4: Osseous system

1. Classify joints with examples
2. Explain the Haversian canal system of bone.
3. Write the composition and functions of bone.
4. What is synovial joint? Explain its types with examples.
5. Classify axial skeletal system with examples.
6. Classify bones on the basis of shape along with examples
7. Classify bone marrow and functions.

Chapter 5: Haemopoietic system

1. Describe the constituents of blood and their functions.
2. Mention coagulation factors and write the mechanism of blood coagulation
3. Describe the ABO system of blood grouping.




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4. What is anemia ? Explain its types
5. Classify leucocytes. Mention its functions.
6. Describe the constituents of plasma and their functions.
7. Write the functions of WBC
8. Write functions of plasma proteins.
9. What is Rh factor?
10. What is hemophilia? Describe its signs and symptoms.

Chapter 6: The lymphatic system

1. Describe the anatomy and functions of spleen.
2. Write a note on lymph and its functions.
3. Identify the components and functions of lymphatic system.
4. Describe the structure of a lymph node. Write its functions.
5. Write a note on disorders of lymph and lymphatic system.

Chapter 7: Cardiovascular system

1. Describe the internal anatomy of heart with a neat labeled diagram.
2. Define blood pressure and discuss various factors regulating the blood pressure in human being.
3. What is cardiac cycle? Describe various events of cardiac cycle.
4. Explain the normal ECG with labeled diagram.
5. Mention the layers and valves of the heart.
6. Write a note on Atherosclerosis and Congestive cardiac failure.
7. What is cardiac output? How it is calculated.
8. Draw ECG and label deflection waves.
9. Define hypertension and hypotension.
10. Mention the factors affecting blood pressure.

Chapter 8: Respiratory system

1. Explain the mechanism of respiration.
2. Describe the location and anatomy of lungs
3. Define vital capacity. Write its normal value.
4. Define oxygen therapy and resuscitation.
5. Name the muscles of respiration.

Chapter 9: Digestive system

1. Describe the gross anatomy of stomach. Explain its physiological functions..
2. Describe the anatomy, histology and functions of small intestine and stomach.
3. Describe the anatomy of liver and mention its functions..
4. Explain how digestion takes place in stomach.
5. List out the various enzymes present in the secretions of GIT..



6. Write the composition of bile and its functions.
7. What is liver cirrhosis?
8. Name the salivary glands and functions of their secretions.

chapter 10: Nervous system

1. Describe the structure and functional areas of cerebrum.
2. Describe the origination and functions of autonomic nervous system.
3. Define Sympathetic and Parasympathetic system and discuss their anatomical and physiological differences.
4. Explain the functions of different cranial nerves.
5. Discuss the internal structure of spinal cord
6. Write the composition and functions of cerebro spinal fluid (CSF).
7. What are the functions of cerebellum?
8. Define reflex action with example.
9. Give a brief account of CTZ (chemoceptor triggerzone).
10. Draw and label diagram of a neuron.

Chapter 11: Urinary system

1. Describe the structure of kidney and explain its functions.
2. Write a note on Renin-Angiotensin-aldosterone system.
3. Write the structure of nephron with neat labeled diagram
4. Write significance of inulin clearance test
5. What is renal clearance test? Mention its types.


Chapter 12: Endocrine system

1. What are the hormones secreted by the pituitary gland? Discuss the regulation of their secretion and physiological function.
2. Define hormone. Discuss various feedback mechanisms involved in the secretion of hormones.
3. Discuss the functions of thyroxin.
4. Write the functions of insulin and glucagon
5. Describe the anatomical location, histology and physiological role of the pancreas.
6. Mention the hormones of anterior pituitary and explain their functions.
7. Write physiological functions of vasopressin.
8. Functions of ADH and oxytocin
9. Write a note on diabetes mellitus and diabetes insipidus.

Chapter 13: Reproductive system

1. Describe the different phases of female reproductive cycle
2. Describe the functions of ovary
3. Write a note on IUCD.
4. Write a short note on oral contraceptives
5. Write a note on menstrual cycle
6. Classify temporary methods of contraception for females.




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7. Describe the structure of ovary and testes.
8. Write a note on female contraceptive devices.
9. Describe the internal structure and functions of testis.
10. Name few contraceptive methods.

Chapter 14: Sense organs

1. Write a neat, labeled diagram of eye and explain the physiology of vision
2. Write a neat, labeled diagram of ear and explain the physiology of hearing.
3. Draw a neat-labeled diagram of skin.
4. Describe the structure of olfactory receptors.
5. What is glaucoma?
6. What are the functions of skin?
7. Write the non-auditory functions of ear.
8. What are olfactory receptors and gustatory receptors?

Chapter 15: Skeletal muscle

1. Write about the physiology of skeletal muscle contraction. Write a note on neuromuscular junction.
2. Describe the structure of skeletal muscle.
3. Write a short note on Myasthenia gravis.
4. Mention the properties of skeletal muscle

Chapter 16: Sports physiology

1. Write the effect of exercises on CVS.
2. Effects of athletic training on muscles.
3. Effects of exercise on body heat.
4. Effects of exercise on body fluid and salts.



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II B. Pharmacy/ I Sem

BP302 T. PHYSICAL PHARMACEUTICS-I QUESTION BANK

UNIT-I

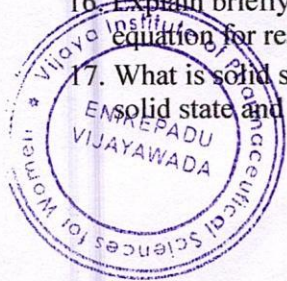
SOLUBILITY OF DRUGS:

1. Define the term Solubility and explain the determination method of solubility of drugson laboratory scale with solubility curves
2. Explain the Mechanism of Solute-Solvent Interactions
3. Write the process of Dissolution and theories of Dissolution
4. What is Solubility parameter and determine the method of solubility parameter with expressions
5. Write about Solvation and Association
6. What are the factors influencing solubility of drugs?
7. Explain the diffusion principles involved in biological and explain how can determine diffusion
8. Explain the factors influencing solubility of gases in liquids
9. Explain the solubility of liquids in liquids and how the concentrations of liquids can be expressed
10. What are Ideal solutions and Explain Raoult's law
11. What is Dalton's law and write its applications
12. Explain briefly about the solubility of partially miscible liquids
13. Explain Nernst's distribution law with its deviations, limitations and applications

UNIT-II

STATES OF MATTER

1. What is States of Matter and explain the changes in states of matter
2. What is Latent Heat and write its types.
3. What is Vapor pressure and explain the factors influencing vapor pressure
4. Explain in detail about Sublimation
5. What are Eutectic Mixtures
6. Write about Aerosols and Inhalers
7. What are Gases and what are the properties of Gases
8. Explain briefly about the liquefaction of gases and the principles involved in liquefaction of gases
9. What is Humidity and explain about absolute and relative humidities
10. Explain in detail about liquid complexes
11. Write briefly about Phase Equilibria and Phase Rule with Applications
12. Explain Phase Diagram for one component system – Water with applications
13. Explain Phase Diagram for two component system- Phenol-water system
14. Explain briefly about Kinetic molecular theory of Gases
15. Explain Briefly about the methods for determining Liquefaction of gases
16. Explain briefly about Gas laws and Derive the equation for ideal gas laws and Vander Waal equation for real gases
17. What is solid state? Write the classification of solids and Explain briefly about crystalline solid state and crystal habit



18. What is Polymorphism and explain in detail with applications
19. Write in detail about Glassy states
20. What are Super critical fluids and explain its properties

PHYSICAL PROPERTIES OF DRUG MOLECULES:

1. What is Refractive Index? List out the types of Refractometers and explain the principle, Construction and working, applications of Abbe's Refractometer
2. Explain about the following Refractometers
 - a. Pulfrich Refractometer
 - b. Immersion/ Dip Refractometer
 - c. V-Block shape Refractometer
3. What is Optical Rotation and write the procedure for determination of Optical Rotation with applications
4. What is Dielectric constant and explain how to measure dielectric constant
5. What is Dipole moment and explain how to measure dipole moment with applications
6. What is dissociation constant and how it can be determined

UNIT-III

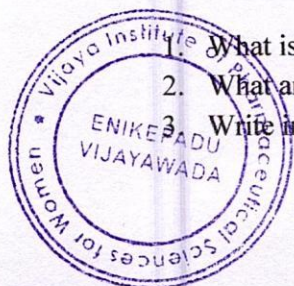
SURFACE AND INTERFACIAL PHENOMENA

1. Define Surface and Interfacial tensions. Explain the Principle involved in the Surface and Interfacial tensions
2. What are the factors influencing surface and interfacial tensions?
3. Explain briefly about the methods to determine the surface tensions (Capillary rise and maximum bubble pressure method)
4. Explain briefly about the methods to determine both the surface and interfacial tensions (Drop method, Whilhelmy plate and Ring detachment method)
5. Explain about spreading coefficient
6. Explain about the energetics of liquid surface with its applications
7. What are Surfactants and write the classification of surfactants and the principle involved in surface active agents with its applications
8. What is HLB Scale? Write its methods of estimation?
9. Write the differences between physical and chemical adsorption
10. Write briefly about adsorption at solid interface
11. Write briefly about adsorption at solid- Gas interface with Freundlich and Langmuir isotherms
12. Write briefly about adsorption isotherms and types of isotherms
13. Explain briefly about wetting phenomena
14. Write the mechanism of Wetting Phenomena
15. What are the factors affecting adsorption?

UNIT-IV

COMPLEXATION AND PROTEIN BINDING

1. What is Complexation? Explain in brief about its classification
2. What are the Pharmaceutical Applications of complexation?
3. Write in detail about Method of analysis of Complexation



4. Write about complexation and drug action
5. What is protein binding? Explain how the drugs binds to various types of proteins
6. Write the significance and applications of protein binding
7. Explain in detail about determination methods for protein binding
8. Write about thermodynamic treatment of stability constants


UNIT-V

P^H, BUFFERS AND ISOTONIC SOLUTIONS

1. What is pH? Write about pH Sorensen's scale?
2. Explain in detail about the determination technique of pH
3. What are buffers? Write the theory involved in buffer systems and write its applications
4. Write the mechanism of buffer action
5. What is Buffer Equation and derive the buffer equations for both weak acids and weak bases
6. Explain in detail about Buffer capacity
7. Write the applications of buffers in both pharmaceutical and biological systems
8. What are buffered isotonic solutions and how can we measure the tonicity of isotonic solution



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II Pharm D

T2102. PHARMACEUTICAL MICROBIOLOGY QUESTION BANK

1) Introduction to the science of microbiology

1. Explain major divisions of microbial world.
2. Write a note on importance of microbiology.

2) Different methods of classification of microbes

3. Write about different methods of classification of microbes.
4. Write a note on bacteria.
5. Discuss in detail about fungus.
6. Write a note on virus.
7. Write a note on rickettsiae
8. Discuss in detail about spirochetes.


3) Nutritional requirements, growth and cultivation of bacteria and virus

9. Write a note on Nutritional requirements of bacteria and virus.
10. Explain growth and cultivation of bacteria and virus.
11. Write about media required for the growth of aerobic and anaerobic bacteria & fungi.
12. Write a note on Differential media.
13. Write a note on enriched media
14. Write a note on selective media.
15. Elucidate maintenance of lab cultures.

4) Different methods used in isolation and identification of bacteria

16. Give explanation on the different methods used in isolation and identification of bacteria.
17. Discuss staining techniques.
18. Write about biochemical reactions.
19. Explain total and viable counting techniques.




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5) Detailed study of different methods of sterilization

20. Explain different methods of sterilization and write their merits and demerits.
21. Write about sterilization methods for pharmaceutical products.
22. Discuss sterility testing of different pharmaceutical preparations.
23. Write a note on validation.

6) Disinfectants

24. Discuss about various disinfectants.
25. Explain mechanism of action of disinfectants.
26. Write about evaluation of bactericidal agents.
27. Write about evaluation of preservatives in pharmaceutical preparations.

7) Immunology

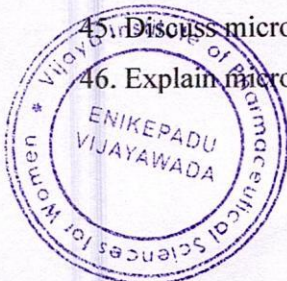
28. General principles of natural immunity.
29. Write about acquired immunity.
30. Discuss about chemical nature of antigens.
31. Write about Bacterial exotoxins and endotoxins.
32. Explain significance of toxoids in active immunity.
33. Discuss Immunization programme.
34. Explain the importance of booster dose.

8) Diagnostic tests

35. Explain Schick's Test.
36. Write a note on Elisa test.
37. Write a note on Western Blot test.
38. Explain Southern Blot.
39. Explain Polymerase chain reaction.
40. Write a note on Widal test.
41. Explain Quantitative Buffy Coat.
42. Write a note on Mantoux test.
43. Explain the study of malarial parasite.

9) Microbial culture sensitivity testing

44. Explain microbial culture sensitivity testing.
45. Discuss microbiological assays.
46. Explain microbiological assay of Penicillin.



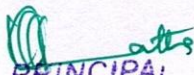
47. Discuss microbiological assay of Streptomycin.
48. Explain microbiological assay of vitamin B2 and B12.
49. Elucidate standardisation of vaccines and sera.

10) Study of infectious diseases

50. Explain about typhoid.
51. Discuss Tuberculosis.
53. Explain about Malaria.
54. Explain about Cholera.
55. Give explanation on Hepatitis.
56. Write about Meningitis.
57. Explain Syphilis.
58. Write about Gonorrhoea.
59. Write about HIV.



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II B. Pharmacy/ II Sem

BP403 T. PHYSICAL PHARMACEUTICS-II QUESTION BANK

UNIT-I

COLLOIDAL DISPERSIONS:

1. Define Colloidal dispersion and write its applications
2. Write the classification of dispersed systems and its general characteristics like size, shape, surface charges
3. Write the classification of colloids and write the differences between its properties
4. Write in detail about Optical properties of colloids
5. Write in detail about Kinetic properties of colloids
6. Write in detail about electric properties of colloids
7. Explain in brief about stability of colloids
8. Write a brief account on DLVO theory
9. How the electrolytes effect on lyophilic and lyophobic colloids
10. What is sensitization and write in detail about protective action of colloids
11. Write about coacervation and peptization

UNIT-II

RHEOLOGY

1. What are Newtonian systems and explain in detail with examples
2. Derive an equation for Newtonian law of flow
3. Write about the different terms of viscosity
4. Write in detail about the effect of temperature on flow of fluids
5. What is Rheology? Write the classification of Rheology and explain in detail about Non-Newtonian systems
6. Explain in detail about time dependent Non-Newtonian systems and its measurement
7. Explain in detail about Time independent Non -Newtonian systems
8. Write the classification of viscometers and determine the viscosity by using capillary flow method
9. Write in detail about falling sphere viscometer
10. Write in detail about the determination of viscosity by rotational viscometers



DEFORMATION OF SOLIDS:

1. What is Stress and write about the different types of stress
2. What is Strain and write about the different types of strain
3. Write about Elastic/ Young's Modulus
4. Write about different types of deformation
5. Write in detail about Heckel equation

UNIT-III

COARSE DISPERSIONS:

1. Define Suspensions What are the applications and advantages and disadvantages of suspensions, ideal characteristics of suspensions
2. Write the interfacial properties of suspended particles/solids
3. What are suspensions and write the differences between flocculated and deflocculated suspensions
4. Write the characteristics of flocculated suspensions
5. Write about the settling in suspensions and factors influencing the settling in suspensions and factors influencing the settling in suspensions
6. Write in detail about formulation of suspensions
7. Write the physical stability of suspensions
8. Define Emulsions. Write the types of emulsions
9. Write the classification of emulsions with its ideal characteristics
10. Write in brief about the theories of Emulsification
11. Write about the physical stability of Emulsions and how to evaluate the physical stability of emulsions
12. What are the factors influencing the physical stability of emulsions?
13. Write in detail about Preservation of emulsions
14. Write in detail about Rheological properties of Emulsions
15. Write the formulation of emulsion and its detection tests


UNIT-IV

MICROMERITICS

1. What is Micromeritics? Write its applications in brief
2. What is average particle size and particle size distribution/ Explain in Brief with the help of Curves
3. Explain briefly about particle number and particle shape

4. List out the determination methods of particle size and explain briefly about optical




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microscopy method

5. Explain briefly about Sieving method
6. What is Sedimentation? Explain about Andreasen pipette method
7. Explain the principle involved in coulter counter technique with a neat labelled diagram
8. What is surface area? Derive the expressions for surface per unit weight and unit volume
9. Explain in briefly about the determination methods for surface area
10. What are derived properties of powder? Explain briefly about porosity
11. Write about the different properties of densities
12. Describe about packing arrangements
13. What are flow properties and explain in brief about its evaluation paramete
14. What is dispersibility and explain its procedure
15. What is consolidation and compression? Explain in detail


UNIT-V

DRUG STABILITY

1. Define reaction kinetics and Derive the equation for zero order, first and second order reactions
2. What are the physical factors influencing the chemical degradation of pharmaceutical product?
3. What are the chemical factors influencing the chemical degradation of pharmaceutical product?
4. Explain the stabilization of medicinal agents against common reactions
5. What are accelerated stability studies and explain in detail about stability testing in expiration dating of pharmaceutical dosage forms
6. Write about Photolytic degradation and its preventive measures
7. Explain in detail about measurement of reaction order.



Prof. Mup


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21/6/17

Code No: T1102

R08

SET - 1

Pharma "D" I Year Regular/Supplementary Examinations, June/July - 2017
PHARMACEUTICS

Time: 3 hours

Max. Marks: 70

Answer any FIVE Questions
All Questions carry Equal Marks

1. a) Write a note on Handling of prescription. (7M)
b) Give different formulae used to calculate child dose. (7M)
2. a) Write about development of Pharmaceutical Industry in India. (8M)
b) Discuss about Indian National Formulary. (6M)
3. a) Define proof spirit. Convert 30UP and 40 OP to real strength. (6M)
b) Calculate the strength of solution, if 25gms of urea dissolved in 75 ml of water. (4M)
c) How do you prepare 25%v/v of alcohol form 40%v/v alcohol? (4M)
4. a) Explain about Insufflations and explosive powders. (7M)
b) Describe about effervescent powders and granules. (7M)
5. a) Write short notes on enemas and throat paints. (10M)
b) Write about collodions. (4M)
6. a) Explain formulation and preparation of suspensions. (7M)
b) Write about physical stability of emulsions. (7M)
7. a) Explain percolation process in detail. (9M)
b) Write about decoctions. (5M)
8. a) Explain Physical incompatibilities. (7M)
b) Write a note on gelatin sponge and medicated bandages. (7M)

-1 of 1

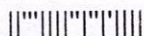


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29/6/16

Subject Code: T1102

Pharma "D" I Year Regular/Supple. Examinations June/July - 2016
PHARMACEUTICS

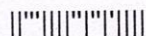
Time: 3 hours


Max. Marks: 70

Answer any FIVE Questions
All Questions carry equal marks

* * * * *

1. (a) What are the required ideal features of a dosage form?
(b) Define Prescription. Discuss different parts of prescription with a neat sketch. [6+8]
2. (a) Discuss the historical background and development of pharmacy profession in India.
(b) Write briefly about pharmaceutical industries development in India. [8+6]
3. (a) Write in detail about the systems of weights and measures.
(b) How will you prepare normal saline solution IP? [10+4]
4. Write about the preparation of the following
(a) Tooth Powders
(b) Effervescent Powders and Granules [5+9]
5. (a) Write about various colorants and flavors used in the dosage forms with examples.
(b) Write short notes on Mouth washes and Throat paint. [7+7]
6. (a) What are the advantages and disadvantages of suspensions?
(b) Write in detail about the evaluations tests for emulsions. [7+7]
7. (a) Explain the role of displacement value in the preparation of suppositories and pessaries with suitable examples.
(b) Write about the evaluation tests for suppositories. [7+7]
8. (a) Write in detail about soxhlet extraction process with the help of a neat diagram.
(b) What is the difference between infusion and decoction? [9+5]




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19/6/17

Code No: T1101

R08

SET - 1

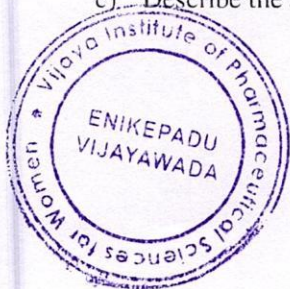
**Pharma "D" I Year Regular/Supplementary Examinations, June/July - 2017
HUMAN ANATOMY AND PHYSIOLOGY**

Time: 3 hours

Max. Marks: 70

Answer any **FIVE** Questions
All Questions carry **Equal** Marks

1. a) Discuss about the types of movements of joints. (4M)
- b) Describe microscopic anatomy of a neuron. (5M)
- c) Describe the structure, location and function of various types of epithelial tissues. (5M)
2. a) Write about the functions of blood. (4M)
- b) Explain about the blood groups. (5M)
- c) Discuss in detail about the mechanism of blood coagulation. (5M)
3. a) Briefly explain about composition and circulation of lymph. (4M)
- b) Add a note on myocardial infarction and hypertension. (5M)
- c) Discuss how blood pressure is regulated. (5M)
4. a) Define different respiratory volumes and capacities. (4M)
- b) Explain how the respiration is regulated. (5M)
- c) Describe how the blood transports oxygen and carbon dioxide. (5M)
5. a) Write about the anatomy of gastrointestinal tract. (4M)
- b) Describe the location, anatomy, histology and functions of the liver and gall bladder. (5M)
- c) Describe the anatomy and physiology of cerebrum. (5M)
6. a) Enlist the cranial nerves. (4M)
- b) Describe the functions of the major sensory and motor tracts of the spinal cord. (5M)
- c) Discuss about the glomerular filtration, tubular reabsorption and tubular secretion. (5M)
7. a) Describe about the anatomy of urinary system. (4M)
- b) Write the role of RAS system in acid base balance. (5M)
- c) Discuss the physiology of menstruation. (5M)
8. a) Add a note on contraceptive devices. (4M)
- b) Explain the hormones and functions of anterior and posterior pituitary gland. (5M)
- c) Describe the anatomy of the structures in the three main regions in the ear. (5M)



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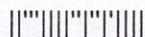
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2014

3

Subject Code: T1101

Pharma "D" I Year Regular/Supplementary Examinations August - 2015

HUMAN ANATOMY AND PHYSIOLOGY

Time: 3 hours

Max. Marks : 70

**Answer any FIVE Questions
All Questions carry equal marks**

1. (a) Enlist the elementary tissues of the human body. Add a note on epithelial tissues
(b) Explain briefly about joints and their disorders [7+7]
2. (a) Write a note on composition and functions of Blood
(b) Explain the erythropoiesis process with factors regulating it [7+7]
3. (a) Describe briefly about composition and functions of Lymph
(b) Explain various events of cardiac cycle & add a note on heart sounds
(c) Draw a diagram of heart and labeled it [4+7+3]
4. (a) Explain the importance of Daltons & Hernys law in exchange of gases in respiratory system.
(b) Write the mechanism of Respiration [6+8]
5. (a) Describe the histology and functions of liver
(b) Explain briefly about digestion of (i) Carbohydrates (ii) Fats [6+4+4]
6. (a) Enumerate various functions of Cranial nerves
(b) Describe anatomy and physiology of cerebellum [8+6]
7. (a) Discuss the histology of kidney with a neat labeled diagram
(b) Write a note on urine formation [6+8]
8. (a) Explain the physiology of hearing and equilibrium with the help of neat labeled diagram
(b) Write in detail about menstrual cycle [7+7]



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Subject Code : T1101

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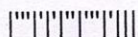
HUMAN ANATOMY AND PHYSIOLOGY


Time: 3 hours

Max. Marks : 70

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Give an account of composition and functions of blood and mention disorders of blood components?
(b) Differentiate various types of tissues with examples? [10+4]
2. (a) Write about regulation of respiration?
(b) Define a cardiac cycle. Describe the various events taking place in a cardiac cycle with time sequences? [7+7]
3. (a) Describe composition and function of gastric juice .what is function of gastrin?
(b) Describe anatomy and physiology of lungs? [7+7]
4. (a) With a neat labeled diagram, describe the structure and function of Heart. Write briefly on pulmonary circulation?
(b) Write in detail about clotting mechanism? [7+7]
5. (a) Write in detail the anatomy of liver and explain its functions?
(b) Define Dybarism, Angina , Mycordial infarction, Congestive heart failure ? [10+4]
6. (a) Discuss about pancreatic islets and its hormone functions?
(b) Define Homeostasis ? Explain the role of Homeostatic mechanism in Human body ? [7+7]
7. (a) Explain the composition and circulation of Lymphatic system ?
(b) Write the function of any two main synovial joints of the Limbs? [7+7]
8. (a) Explain the following terms end diastolic volume,vital capacity,Tidal capacity,
End reserve volume
(b) Describe the action potential? Write about nervous tissue in detail? [4+10]




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3

Subject Code: T1104

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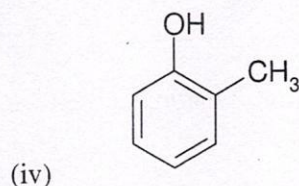
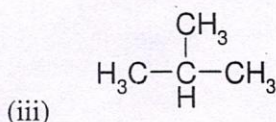
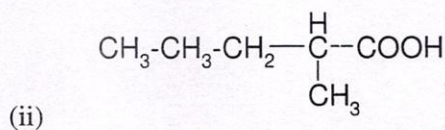
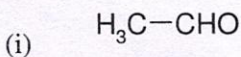
PHARMACEUTICAL ORGANIC CHEMISTRY

Time: 3 hours

Max. Marks: 70

Answer any FIVE Questions
All Questions carry equal marks

1. (a) What is Lewis theory of acids and bases? How it differs from Lowry – bronsted concept.
(b) Write the IUPAC and common names of the following compounds.



- (c) Discuss the free radical chain reaction of alkanes. Explain the following terms:
(i) Heat of reaction
(ii) Energy of activation
(iii) Collision frequency
(iv) Probability factory

[3+4+7]

2. (a) Write the method of preparation of cycloalkanes and give the silent features of Bayer's strain theory including its limitations.
(b) " $\text{S}_{\text{N}}1$ reaction proceeds with racemization plus inversion" – Explain.
(c) Explain the role of solvent in $\text{S}_{\text{N}}1$ reaction.

[6+4+4]

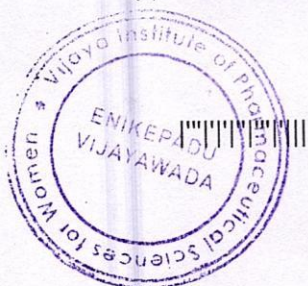
3. (a) Give the mechanism of E_2 elimination and explain the isotope effect and absence of rearrangement as evidence for such mechanism.
(b) Write notes on the following.
(i) Elimination versus Substitution
(ii) Walden Inversion

[6+ (4+4)]


4. (a) Give the classification of substituent groups based on their o, p & m directing and activating/deactivating properties. Explain how halogens are ring deactivating yet ortho/para directing.
(b) Write a note on Stability of carbocation.
(c) Give the mechanism of F-C- alkylation

[6+4+4]

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