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Geethanjali College of Pharmacy

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Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist, Telangana State- 501301.

LIST OF PROGRAMMES FOR SLOW LEARNERS

AY:2020-21

Based on socioeconomic backgrounds and the assessment criteria's the listed slow learners are given the opportunity to improve the skills through following programs.

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

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SPECIAL PROGRAMS FOR SLOW LEARNERS

MENTOR-MENTEE COUNSELLING



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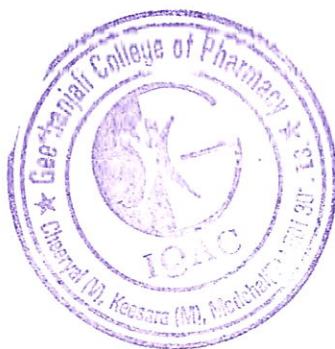
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B.PHARMACY IV-II

DURATION: 2/8/21 to 23/8/21

AY-2020-21

DAYS	TIME	NAME OF THE SUBJECT	NAME OF FACULTY
MONDAY	2:45-3:45PM	Nanotechnology (Sec-A)	Mrs.R.Sushma
TUESDAY		Pharmaceutical Jurisprudence (Sec-B)	Mrs.P.Jyothi



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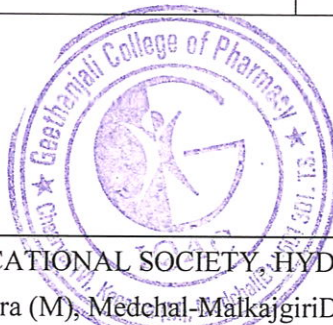
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SPECIAL CLASSES TIMETABLE **ONLINE(<https://meet.google.com/bhb-wutk-aoh>)**

B.PHARMACY III-II

DURATION: 19/9/21 to 9/10/21 AY-2020-21

DAYS	TIME	NAME OF THE SUBJECT	NAME OF FACULTY
MONDAY	2:45- 3:45PM	Pharmacology-III (Sec-A)	Mrs.P.Jyothirmayee
TUESDAY		Herbal Drug Technology (Sec-A)	Mrs.P. Shankaraiah
WEDNESDAY		Biopharmaceutics & Pharmacokinetics (Sec-A)	Mrs.M. Aparna
THURSADY		Medicinal Chemistry III (Sec-B)	Mrs.B. Sandhya
MONDAY		Pharmacology-III (Sec-B)	Mrs.G.Abhinanayi
TUESDAY		Herbal Drug Technology (Sec-B)	Mr.B. Santhosh
WEDNESDAY		Biopharmaceutics & Pharmacokinetics (Sec-B)	Mrs.P.Aparna
FRIDAY		Pharmaceutical Biotechnology (Sec-B)	Mr.J.Naveen



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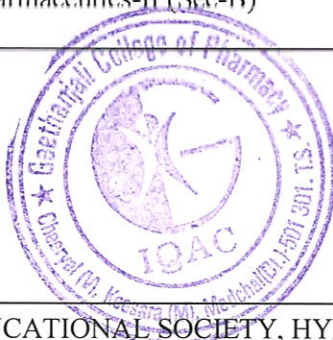
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B.PHARMACY II-II

DURATION:18/10/21 to 30/10/21

AY-2020-21

DAYS	TIME	NAME OF THE SUBJECT	NAME OF FACULTY
MONDAY	2:45-3:45PM	Pharmaceutical Organic Chemistry-III (Sec-A)	Mrs.B.Sandhya
TUESDAY		Medicinal Chemistry-I (Sec-A)	Mrs.N. Swetha
WEDNESDAY		Physical Pharmaceutics-II (Sec-A)	Mr.Kishorerreddy
MONDAY		Pharmaceutical Organic Chemistry-III (Sec-B)	Mrs.B.Sandhya
TUESDAY		Medicinal Chemistry-I (Sec-B)	Mrs.R.Umadevi
WEDNESDAY		Physical Pharmaceutics-II (Sec-B)	Mr Kishore Reddy



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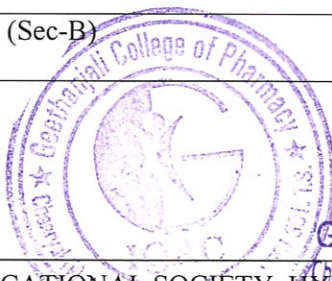
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B.PHARMACY I-II

DURATION: 7/2/21 TO 27/2/21

AY-2020-21

DAYS	TIME	NAME OF THE SUBJECT	NAME OF FACULTY
MONDAY	2:45- 3:30PM	Human Anatomy AndPysiology -II (Sec-A)	Dr.B.Bharath Bhushan
TUESDAY		Pharmaceutical Organic Chemistry -I (Sec-A)	Dr.R. Shivakumar
WEDNESDAY		Pathophysiology (Sec-A)	Mrs.V.Shalini
MONDAY		Human Anatomy And Pysiology -II (Sec-B)	Mrs.P.Jyothirmayee
TUESDAY		Pharmaceutical Organic Chemistry -I (Sec-B)	Mrs.Ch.Sumalatha
THURSDAY		Biochemistry (Sec-B)	Mr.SatishKumar
WEDNESDAY		Pathophysiology (Sec-B)	Mrs.V.Shalini



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Sample copy of attendance

← About this call

People	Information
Mahendar Seervi	⌘ ⋮
Md Ibrahim	⌘ ⋮
rahul	⌘ ⋮
Renuka Devi	⋮ ⋮
Rohan	⌘ ⋮
SAI SURYA ANUSHA	⌘ ⋮
Saikiran	⌘ ⋮
Sindhu Sanga	⌘ ⋮
Srivani Chintha	⌘ ⋮
Srividya Nirogi Nirogi	⌘ ⋮
Subhashini Kandi	⋮ ⋮
Tirupathi Bhavana	⌘ ⋮
V Madhuri	⌘ ⋮
Yashwanth Goud	⌘ ⋮



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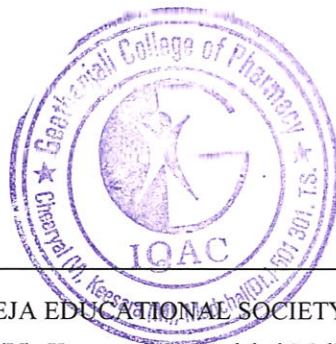
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B.PHARMACY IV-I

DURATION: 18/01/2021-6/1/2021(3 WEEKS)AY-2020-21

DAY	TIME	NAME OF THE SUBJECT	NAME OF FACULTY
MONDAY WEDNESDAY FRIDAY	4:30-5:30PM	Instrumental Method Of Analysis (Sec-A)	Mrs.M.Pravalika
TUESDAY THURDAY		Pharmacovigilance (Sec-A)	Mr.Md.Abubakar
MONDAY WEDNESDAY FRIDAY		Instrumental Method Of Analysis (Sec-B)	Mrs.KI.Rajitha



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B.PHARMACY III-I

DURATION: 18/01/2021-6/1/2021(3 WEEKS) AY-2020-21

DAY	TIME	NAME OF THE SUBJECT	NAME OF FACULTY
MONDAY THURSDAY	4:30-5:30PM	Industrial Pharmacy-I (Sec-A)	Mrs.D.Savitha
TUESDAY FRIDAY		Pharmacology-II (Sec-A)	Mrs.T.Anoosha
WEDNESDAY SATURDAY		Generic Product Development (Sec-A)	Mrs.V.Vinisha
MONDAY THURSDAY		Industrial Pharmacy-I (Sec-B)	Mrs.D.Savitha
TUESDAY FRIDAY		Pharmacology-II (Sec-B)	Mrs.V.Shalini
WEDNESDAY SATURDAY		Generic Product Development (Sec-B)	Mr.G.Naveen



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B.PHARMACY II-ISEM

DURATION: 18/01/2021-6/1/2021(3 WEEKS)

AY-2020-21

DAY	TIME	NAME OF THE SUBJECT	NAME OF FACULTY
MONDAY WEDNESDAY	4:30-5:30PM	Pharmaceutical Microbiology	Dr.P.Neeraja
TUESDAY THURSDAY		Pharmaceutical Organic Chemistry II	Mrs.R.Umadevi
MONDAY WEDNESDAY		Pharmaceutical Microbiology	Mrs.J.Naveen



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B.PHARMACY I-I

DURATION: 8/02/2021-27/02/2021(3 WEEKS)

AY: 2020-21

DAYS	TIME	NAME OF THE SUBJECT	NAME OF FACULTY
MONDAY	4:30-5:30PM	Human Anatomy and Physiology -I	Dr.Bharat Bhushan
TUESDAY		Pharmaceutical Analysis I	Mr.M.Satish
WEDNESDAY		Pharmaceutics I	Dr.T.Mangilal
THURSDAY		Pharmaceutical Inorganic Chemistry	Mrs.Ch.Sumalatha
FRIDAY		Remedial Mathematics	Mrs.K.Swapna
SATURDAY			



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PHARM.D IV

DURATION: 21/12/20 TO 8/1/21(3 WEEKS)

AY-2020-21

DAY	TIME	NAME OF THE SUBJECT	NAME OF FACULTY
THURSDAY	3:30-4:30PM	CLINICAL	Mr.MD.ABUBAKAR
SATURDAY		TOXICOLOGY	



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SPECIAL CLASSES TIMETABLE

ONLINE(<https://meet.google.com./dvu-txkf-vse>)

PHARM.D III YEAR

DURATION: 21/12/20 TO 8/1/21(3 WEEKS)

AY-2020-21

DAYS	TIME	NAME OF THE SUBJECT	NAME OF FACULTY
MONDAY	3:30- 4:30PM	PHARMACEUTICAL FORMULATIONS	Mr.K.Shiva
TUESDAY		PHARMACOLOGY-II	Mrs.T.Anoosha
WEDNESDAY		PHARMACEUTICAL ANALYSIS	Mr.M.Sathish Kumar
THURSDAY		PHARMACEUTICAL JURISPRUDENCE	Mrs.K.Mounika



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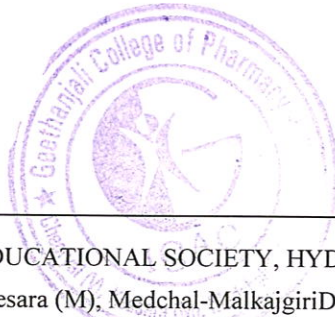
ONLINE(<https://meet.google.com./xic-tpps-few>)

PHARM.D II YEAR

DURATION: 21/12/20 TO 8/1/21(3 WEEKS)

AY: 2020-21

DAYS	TIME	NAME OF THE SUBJECT	NAME OF FACULTY
MONDAY- WEDNESDAY	3:30- 4:30PM	PATHOPHYSIOLOGY	Mrs.V.SHALINI



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PHARM.D I YEAR

DURATION: 22/3/21 TO 9/4/21(3 WEEKS)

AY-2020-21

DAYS	TIME	NAME OF THE SUBJECT	NAME OF FACULTY
MONDAY	3:30- 4:30PM	PHARMACEUTICS	Mrs.S.D.SHALINI
TUESDAY		PHARMACEUTICAL ORGANIC CHEMISTRY	Dr.M.Srinivas
WEDNESDAY		REMEDIAL MATHEMATICS	Mrs.K.SWAPNA



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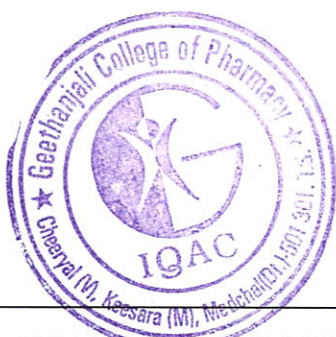
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M.PHARMACY I-I (PHARMACEUTICS)

SPECIAL ONLINECLASSES TIMETABLE

DURATION: 8/3/2021-22/3/2021AY-2020-21

DAY	TIME	NAME OF THE SUBJECT	NAME OF FACULTY
MONDAY	2:45-3:30PM	DRUG REGULATORY AFFAIRS	Mrs.Pooja Agarwal



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M.PHARMACY I-I (PHARMACEUTICS)

SPECIAL ONLINECLASSES TIMETABLE

DURATION: 9/3/2021-24/3/2021AY-2020-21

DAY	TIME	NAME OF THE SUBJECT	NAME OF FACULTY
TUESDAY & WEDNESDAY	2:45- 3:30PM	RESEARCH METHODOLOGY & INTELLECTUAL PROPERTY RIGHTS	Mrs.K.MOUNIKA



Santhosh
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M.PHARMACY I-I (PHARMACEUTICS)

SPECIAL ONLINE CLASSES TIMETABLE

DURATION: 18/3/2021-1/4-2021AY-2020-21

DAY	TIME	NAME OF THE SUBJECT	NAME OF FACULTY
Thursday Friday Saturday	2:45-3:30PM	STABILITY OF DRUGS & DOSAGE FORMS	Miss.R.Sushma



Sushma R.
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M.PHARMACY I-I (PHARMACEUTICAL ANALYSIS)

SPECIALONLINE CLASSES TIMETABLE

DURATION: 19/4/2021-9/4/2021AY-2020-21

DAY	TIME	NAME OF THE SUBJECT	NAME OF FACULTY
Thursday Friday Saturday	2:45-3:45PM	STABILITY OF DRUGS & DOSAGE FORMS	Miss.R.Sushma



Sushma R.
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M.PHARMACY I-I (PMRA)

SPECIAL ONLINECLASSES TIMETABLE

DURATION: 12/4/2021-26/4/2021AY-2020-21

DAY	TIME	NAME OF THE SUBJECT	NAME OF FACULTY
Thursday Friday Saturday	2:45-3:45PM	STABILITY OF DRUGS & DOSAGE FORMS	Miss.R.Sushma



Sushma R.
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REMEDIAL CLASSES TIMETABLE

ONLINE(<https://meet.google.com./end-mtqf-vri>)

B.PHARMACY IV-I

DURATION: 15/3/21 to 9/4/21(3 weeks)

AY-2020-21

DAYS	TIME	NAME OF THE SUBJECT	NAME OF FACULTY
MONDAY- WEDNESDAY	4:30-5:30PM	INSTRUMENTAL METHOD OF ANALYSIS	Mrs..M.PRAVALIKA & Mrs. K.L. RAJITHA



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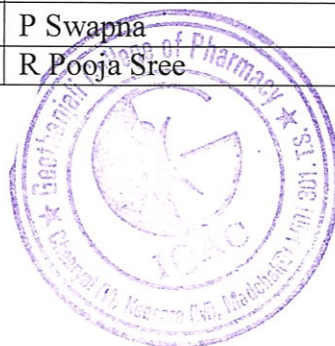
Cheeryal (V), Keesara (M), Medchal-MalkajgiriDist, Telangana State- 501301.

LIST OF STUDENTS REMEDIAL CLASSES IV B.PHARMACY/ I SEM

SUBJECT:INSTRUMENTAL METHOD OF ANALYSIS

AY: 2020-21

HALL TICKET NUMBER	NAME OF STUDENTS
17FA1R0001	GudepuDivya
17FA1R0003	Jerryothula Pranitha
17Z51R0020	Kotha Deepak Reddy
17Z51R0028	NarraLokeshwara
17Z51R0038	SoyalJitendar Choudhary
17Z51R0049	C.N.B.S. Veda Samhitha
17Z51R0053	Dwarampudi Harshita
17Z51R0055	J Suchitha
17Z51R0063	M Mrudula Gayathri
17Z51R0065	Mandalaparthi Akhilesh
17Z51R0068	Moka Priscilla
17Z51R0070	P Swapna
17Z51R0073	R Pooja Sree



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REMEDIAL CLASSES TIMETABLE

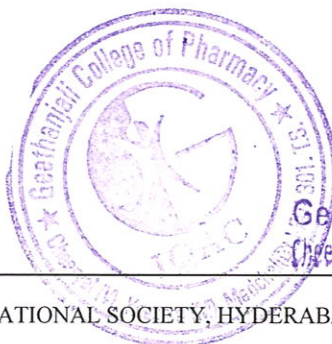
ONLINE(<https://meet.google.com/bhb-wutk-aoh>)

B.PHARMACY III-I

DURATION: 15/3/21 to 9/4/21(3 weeks)

AY-2020-21

DAY	TIME	NAME OF THE SUBJECT	NAME OF FACULTY
MONDAY	4:30- 5:30PM	MEDICINAL CHEMISTRY-II	Dr.J.Sunil
TUESDAY		PHARMACOLOGY-II	Mrs.T.Anoosha
WEDNESDAY		PHARMACOGNOSY AND PHYTOCHEMISTRY	Mr.B.Santosh Kumar
THURSDAY		GENERIC PRODUCT DEVELOPMENT	Mr.J.Naveen



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REMEDIAL CLASSES ATTENDANCE SHEET

III B.PHARMACY/ I SEM

SUBJECT :MEDICINAL CHEMISTRY-II

AY: 2020-21

HALL TICKET NUMBER	NAME OF STUDENTS
17Z51R0015	Gangiti Praveen
18Z51R0003	Appani Rachana Varma
18Z51R0005	Budidha Priyanka
18Z51R0006	C SreePravalika
18Z51R0008	Chevulamaddi Karthik Kumar
18Z51R0012	Dara Divya
18Z51R0017	GovindapuramDasarathHaripriya
18Z51R0022	Kethavath Saritha
18Z51R0023	Lakavath Rajinikanth
18Z51R0025	Madira Sanjay Kumar
18Z51R0027	ManthenaPavankalyan
18Z51R0028	MedojiSushmitha
18Z51R0029	Mittapelli Rakesh
18Z51R0031	N Deepika
18Z51R0032	P Angel Sharon
18Z51R0035	PundruNikitha
18Z51R0037	S S Vishnu
18Z51R0038	SajjanaGandla Meghana
18Z51R0041	Sheikh Nadeem
18Z51R0051	BhukyaLingesh
18Z51R0059	KannojuShirisha
18Z51R0062	Kola Sruthi
18Z51R0064	M Sai Priya
18Z51R0065	Macha Neha Reddy
18Z51R0080	Vuduthala Neha
18Z51R0081	MadhiriHemani

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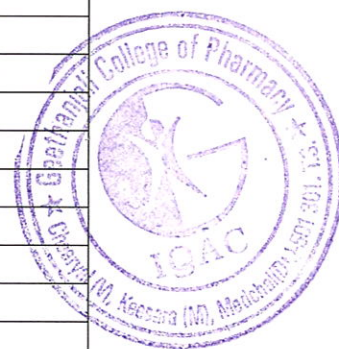
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LIST OF STUDENTS FOR REMEDIAL CLASSES III B.PHARMACY/ I SEM

PHARMACOLOGY-II

AY: 2020-21

HALL TICKET NUMBER	NAME OF STUDENTS
17Z51R0015	Gangiti Praveen
18Z51R0006	C SreePravalika
18Z51R0008	Chevulamaddi Karthik Kumar
18Z51R0012	Dara Divya
18Z51R0025	Madira Sanjay Kumar
18Z51R0027	ManthenaPavankalyan
18Z51R0029	Mittapelli Rakesh
18Z51R0031	N Deepika
18Z51R0032	P Angel Sharon
18Z51R0035	PundruNikitha
18Z51R0036	Ramavath. Kishan
18Z51R0037	S S Vishnu
18Z51R0038	SajjanaGandla Meghana
18Z51R0041	Sheikh Nadeem
18Z51R0043	SingidiRuthwick Simon
18Z51R0045	ThathuriEliya Kumar
18Z51R0051	BhukyaLingesh
18Z51R0062	Kola Sruthi
18Z51R0065	Macha Neha Reddy
18Z51R0081	MadhiriHemani



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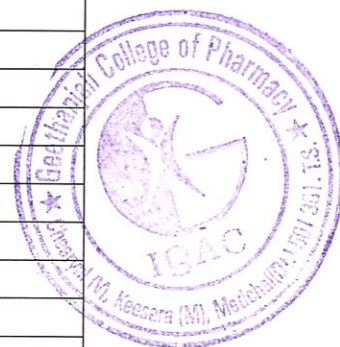
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LIST OF STUDENTS FOR REMEDIAL CLASSES III B.PHARMACY/ I SEM

PHARMACOGNOSY AND PHYTOCHEMISTRY-II

AY: 2020-21

HALL TICKET NUMBER	NAME OF STUDENTS
17Z51R0015	Gangiti Praveen
18Z51R0011	C.M.N. Vikhyathi
18Z51R0003	Appani Rachana Varma
18Z51R0005	Budidha Priyanka
18Z51R0006	C SreePravalika
18Z51R0008	Chevulamaddi Karthik Kumar
18Z51R0012	Dara Divya
18Z51R0017	GovindapuramDasarathHaripriya
18Z51R0025	Madira Sanjay Kumar
18Z51R0027	ManthenaPavankalyan
18Z51R0031	N Deepika
18Z51R0032	P Angel Sharon
18Z51R0036	Ramavath. Kishan
18Z51R0037	S S Vishnu
18Z51R0041	Sheikh Nadeem
18Z51R0043	SingidiRuthwick Simon
18Z51R0045	ThathuriEliya Kumar
18Z51R0072	Rasamshetty Abhishek
18Z51R0073	S Gideon Samuel
18Z51R0081	MadhiriHemani



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LIST OF STUDENTS FOR REMEDIAL CLASSES III B.PHARMACY/ I SEM

GENERIC PRODUCT DEVELOPMENT

AY: 2020-21

HALL TICKET NUMBER	NAME OF STUDENTS
17Z51R0015	Gangiti Praveen
18Z51R0003	Appani Rachana Varma
18Z51R0004	Bandameedi Chandana
18Z51R0005	Budidha Priyanka
18Z51R0006	C SreePravalika
18Z51R0008	Chevulamaddi Karthik Kumar
18Z51R0017	GovindapuramDasarathHaripriya
18Z51R0027	ManthenaPavankalyan
18Z51R0032	P Angel Sharon
18Z51R0037	S S Vishnu
18Z51R0038	SajjanaGandla Meghana
18Z51R0045	ThathuriEliya Kumar
18Z51R0051	BhukyaLingesh
18Z51R0062	Kola Sruthi
18Z51R0081	MadhiriHemani



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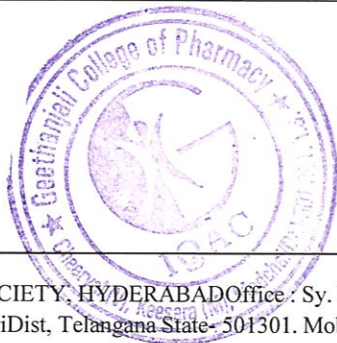
ONLINE(<https://meet.google.com/iup-qfsc-nhu>)

B.PHARMACY I-I

DURATION: 13/9/21 to 1/10/21(3 weeks)

AY-2020-21

DAY	TIME	NAME OF THE SUBJECT	NAME OF FACULTY
MONDAY	4:30- 5:30PM	HUMAN ANATOMY AND PHYSIOLOGY-I	Dr.B.BHARAT BHUSHAN
TUESDAY		PHARMACEUTICAL -I	Dr.T.MANGILAL
WEDNESDAY		PHARMACEUTICAL IINORGANIC CHEMISTRY	Dr.R.SHIVAKUMAR
THURSDAY		COMMUNICATION SKILLS	Mr.RAMMA CHARI
FRIDAY		REMEDIAL MATHEMATICS	Mrs.K.SWAPNA



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LIST OF STUDENTS FOR REMEDIAL CLASSES

IB.PHARMACYI SEM

HUMAN ANATOMY AND PHYSIOLOGY-I

AY: 2020-21

HALL TICKET NUMBER	NAME OF STUDENTS
20Z51R0015	Govardhana Revathi Yadav
20Z51R0025	Karnedi Eshwar
20Z51R0026	Kavali Madhavi
20Z51R0027	K Vasundara
20Z51R0034	Mohammed Abdul Rasheed
20Z51R0037	Nellela Bhargavi
20Z51R0055	Birukuri Sri Krishna Vamshi
20Z51R0065	GundaLahari
20Z51R0081	MunigondaLahari
20Z51R0086	Raushan Kumar
20Z51R0087	Rohit Arun Kanawade
20Z51R0094	Shaik Arbaz Uddin



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LIST OF STUDENTS FOR REMEDIAL CLASSES

I B.PHARMACY I SEM

PHARMACEUTICS-I

AY: 2020-21

HALL TICKET NUMBER	NAME OF STUDENTS
20Z51R0001	Adunala Sumanth
20Z51R0004	Bandari Deekshitha
20Z51R0005	Beerla Sandhya
20Z51R0010	Dharavath Ahalya
20Z51R0011	Enuganti Sathwik
20Z51R0014	Ghule Karthik
20Z51R0015	Govardhana Revathi Yadav
20Z51R0020	Jasmica Reddy Yerasi
20Z51R0025	Karnedi Ushwar
20Z51R0026	Kavali Madhavi
20Z51R0027	K Vasundara
20Z51R0028	Kuncha Harika
20Z51R0029	Kunta Meghana
20Z51R0031	Lothumalla Manasa
20Z51R0032	Mengani Hareesh
20Z51R0033	Mendu Suchitra Sri Bhargavi
20Z51R0034	Mohammed Abdul Rasheed
20Z51R0035	Munigonda Anuraga Aravindha
20Z51R0036	Muskaan
20Z51R0037	Nellela Bhargavi
20Z51R0038	Nirogi Sri Vidya
20Z51R0039	Saikiran Pendyala
20Z51R0042	Reshma
20Z51R0044	Sanga Sindhu

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Cheeryal(V), Keesara(M), Medchal Dist. T.S.-501301.

20Z51R0046	Sunkara Renuka Devi
20Z51R0047	Tirupathi Bhavana
20Z51R0048	VankaJyothikaRathna Madhuri
20Z51R0049	VakitiKeerthy
20Z51R0051	Arpula Gayatri
20Z51R0055	Birukuri Sri Krishna Vamshi
20Z51R0056	Bogini Swathi
20Z51R0060	ErakipatiNikitha
20Z51R0063	Gorantla Praneeth
20Z51R0064	Gummadidala Yamini
20Z51R0065	GundaLahari
20Z51R0066	Gundawar Sandesh
20Z51R0067	GunreddyRaviteja Reddy
20Z51R0071	Kashaveni Shiva Kumar
20Z51R0072	Kammari Mounika
20Z51R0074	KholaShireesha
20Z51R0080	Muddham Harika
20Z51R0084	Nowduri Krupa Rani
20Z51R0086	Raushan Kumar
20Z51R0087	Rohit Arun Kanawade
20Z51R0093	Shaik Sumayya Parveen
20Z51R0094	Shaik Arbaz Uddin
20Z51R0095	Sirigadde Sowmya
20Z51R0098	Vadapally Swetha



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Cheeryal (V), Keesara (M), Medchal-MalkajgiriDist, Telangana State- 501301.

LIST OF STUDENTS FOR REMEDIAL CLASSES

I B.PHARMACY I SEM

PHARMACEUTICAL INORGANIC CHEMISTRY-I

AY: 2020-21

HALL TICKET NUMBER	NAME OF STUDENTS
20Z51R0003	Baithi Rakesh
20Z51R0033	Mendu Suchitra Sri Bhargavi
20Z51R0034	Mohammed Abdul Rashced
20Z51R0037	Nellcla Bhargavi
20Z51R0042	Reshma
20Z51R0044	Sanga Sindhu
20Z51R0048	VankaJyothikaRathna Madhuri
20Z51R0049	VakitiKeerthy
20Z51R0055	Dinukuri Sri Krishna Vamsli
20Z51R0065	GundaLahari
20Z51R0067	GunreddyRaviteja Reddy
20Z51R0072	Kammari Mounika
20Z51R0073	Kandadi Anudeep Reddy
20Z51R0086	Raushan Kumar
20Z51R0087	Rohit Arun Kanawade
20Z51R0094	Shaik Arbaz Uddin
20Z51R0098	Vadapally Swetha



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LIST OF STUDENTS FOR REMEDIAL CLASSES

I B.PHARMACY I SEM

COMMUNICATION SKILLS

AY: 2020-21

HALL TICKET NUMBER	NAME OF STUDENTS
20Z51R0008	ChinthaSrivani
20Z51R0010	DharavathAhalya
20Z51R0012	Garimella Sai Surya Anusha
20Z51R0015	Govardhana Revathi Yadav
20Z51R0026	Kavali Madhavi
20Z51R0027	K Vasundara
20Z51R0055	Birukuri Sri Krishna Vamshi
20Z51R0062	Gopu Rajeshwari
20Z51R0063	Gorantla Praneeth
20Z51R0072	Kammari Mounika
20Z51R0094	Shaik Arbaz Uddin



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REMEDIAL MATHEMATICS

AY: 2020-21

HALL TICKET NUMBER	NAME OF STUDENTS
20Z51R0026	KAVAJI MADHAVI
20Z51R0033	MENDU SUCHITRA SRI BHARGAVI
20Z51R0034	MOHAMMED ABDUL RASHEED
20Z51R0048	VANKA JYOTHIKA RATHNA MADHURI
20Z51R0053	BAKKURI REENA
20Z51R0054	BHOOPATHI PRAVEEN
20Z51R0056	BUGINI SWATHI
20Z51R0062	GOPU RAJESHWARI
20Z51R0063	GORANTLA PRANEETH
20Z51R0074	KHOLA SHIREESHA
20Z51R0084	NOWDURI KRUPA RANI
20Z51R0086	RAUSHAN KUMAR
20Z51R0094	SHAIK ARBAZ UDDIN



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REMEDIAL ONLINE CLASSES TIMETABLE

PHARM.D I YEAR

DURATION: 8/11/21 TO 30/11/21

(AY-2020-21)

DAY	TIME	NAME OF THE SUBJECT	NAME OF FACULTY	SIGNATURE
THURSDAY- SATURDAY	3:30- 4:30	PHARMACEUTICAL INORGANIC CHEMISTRY	N.ANJENEYULU	



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LIST OF STUDENTS FOR REMEDIAL ONLINE CLASSES

IPHARM D

SUBJECT: PHARMACEUTICAL INORGANIC CHEMISTRY

AY: 2020-21

S.NO	HALL TICKET NUMBER	NAME OF STUDENTS
1	20Z51T0009	MEDA ANJALI
2	20Z51T0016	VELPUGONDA SUPRIYA
3	20Z51T0023	PERNAKI AJAY PRABHU KIRAN
4	20Z51T0024	S SHARVANI
5	20Z51T0025	PATIIYARA SOHAN



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QUESTION BANK- CLINICAL TOXICOLOGY

IV PHARM.D

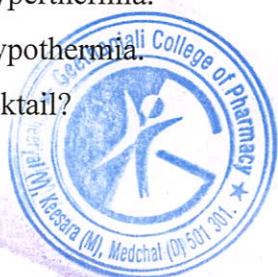
CHAPTER 1 : General principles involved in the management of poisoning:

SHORT ESSAYS:

1. Explain ABCD management of Poisons?
2. Write the grading for the severity of CNS intoxication?
3. Write briefly on Acid–base disorders and its causes?
4. Explain in detail general principles involved in the management of poisoning?
5. Explain in detail the stabilization and evaluation in the management of poisoning.
6. Explain briefly Glasgow coma Scale.
7. Explain the role of Sodium bicarbonate in the management of poisoning?
8. Explain the electrolyte disturbance in poisoning?
9. Mention the drugs associated with pulse rate and blood pressure?
10. Add a note on toxic syndromes.

SHORT ANSWER:

1. Define Fluminant, Acute, Subacute and Chronic poisoning.
2. Mention the Toxicity rating of poisons.
3. Mention the Poisoning severity score for acute poisoning.
4. Define UFD and MLD.
5. Discuss the methods of preventing absorption of poisons.
6. Mention the Drug / toxin induced arrhythmias.
7. List the drugs causing non-cardiogenic pulmonary oedema.
8. Management of hyperthermia.
9. Management of hypothermia.
10. What is Coma cocktail?



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CHAPTER 2: Antidotes and the clinical applications

SHORT ANSWER:

1. Define and classify antidotes.
2. Explain the role of antidote in poisoning.
3. Write a short note on antidotes and give examples with their clinical application?
4. Explain Accelerated detoxification and reduced toxic conversion antidote with examples.
5. Write the composition of Universal antidote?
6. Define Adjunctival antidotes with example.
7. Define and mention the composition of obsolete antidote.
8. Explain toxic effect bypass antidote action with example?
9. Explain receptor site competition antidote action with example?
10. Explain receptor blockade antidote action with example?
11. Add a note on inert complex formation antidote action with example.
12. Antidotes used in methanol poisoning.
13. List the modes of action of antidotes.

CHAPTER 3: Supportive care in clinical Toxicology

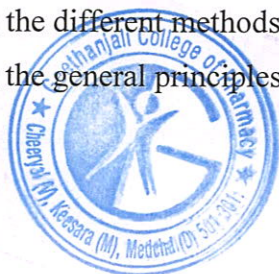
SHORT ESSAYS

1. Give a short note on role of supportive care measures in poisoning.
2. Describe the role of basic supportive care in the management of poisoning?
3. Discuss the supportive care for Airway correction.
4. Explain the supportive care for breathing correction.
5. Explain the supportive care for Circulation correction.

CHAPTER 4: Gut Decontamination

SHORT ESSAYS

1. Describe the technique, contraindication, potential complication and adverse effect of emesis method of gut decontamination.
2. Explain the different methods of gut decontamination.
3. Explain the general principles of gut decontamination with advantages and disadvantages.



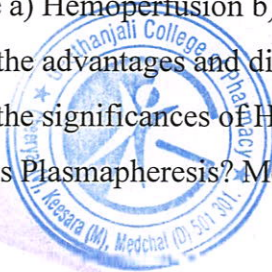
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4. Write the techniques, indications, contraindications and complications involved in gastric lavage.
5. Discuss the technique, contraindication, potential complication and adverse effect of Activated charcoal method of gut decontamination.
6. Explain the role of gastric lavage and charcoal administration in Gut decontamination process.
7. Explain the technique, contraindication, potential complication and adverse effect of cathartics method of gut decontamination.
8. Explain the technique, contraindication, potential complication and adverse effect of whole-bowel irrigation method of gut decontamination.
9. Add a note on gastrointestinal decontamination risk-benefit analysis.
10. Explain the Oral binding agents in gut decontamination
11. List out the Gut decontamination methods.
12. Enumerate the contraindications in gastric lavage.
13. Write the gastrointestinal decontamination triangle?
14. Mention the complications of emesis in gut decontamination.
15. Disadvantages of Gut Decontamination
16. Multiple dose activated charcoal.
17. Uses of light kaolin and charcoal in poisoning.
18. Describe the mechanism and uses of EDTA in clinical toxicology.
19. List the complications of gastric lavage in gut decontamination.

HAPTER 5: Elimination Enhancement.

SHORT ANSWER:

1. Write the elimination enhancement methods in treatments of acute poisoning.
2. Mention urinary alkalinisation method of elimination enhancement of poisons.
3. Write the potential complication and indication of urinary alkalinisation method of elimination enhancement of poisons.
4. Write the importance of multiple doses of activated charcoal in elimination enhancement technique
5. What is extracorporeal techniques in elimination of poisons
6. Write a the role of dialysis in elimination enhancement of poisons?
7. Explain the role of hemodialysis in the management of poisoning.
8. Define a) Hemoperfusion b) Haemodialysis c) Plasmapheresis d) Hemodiafiltration
9. Write the advantages and disadvantages of Hemoperfusion in elimination enhancement of poisons.
10. Write the significances of Haemodialysis in elimination enhancement of poisons?
11. What is Plasmapheresis? Mention its role in elimination enhancement of poison



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12. Write the potential complications of multiple doses of activated charcoal technique for elimination of poison.

CHAPTER 6 : Toxicokinetics

SHORT ANSWER:

1. Define and enlist the various parameters of toxicokinetics.
2. Define toxicokinetics and write its importance.
3. Write the clinical Applications of toxicokinetics?

CHAPTER 7 : Clinical symptoms and management of acute poisoning of:

a). Pesticide poisoning: Organophosphorous compounds, carbamates, organochlorines, pyrethroids, b) Opioid overdose c) Antidepressants, d) Barbiturates and benzodiazepines, e) Alcohol: ethanol, methanol, f) Paracetamol and salicylates, g) Non-steroidal anti-inflammatory drugs, h) Hydrocarbons: Petroleum products and PEG. Caustics: inorganic acids and alkali, j). Radiation poisoning

LONG ESSAYS:

1. What are the signs and symptoms of acute poisoning with organophosphorus compounds? Describe its clinical management.
2. Explain the signs and symptoms and management of organochlorine poisoning.
3. Enlist the various pesticides and explain the clinical symptoms and management of acute poisoning of any two.
4. Classify Pyrethroids. Explain the management of Pyrethroid poisoning.
5. What are signs and symptoms of opiates poisoning and its management?
6. Explain the clinical symptoms and management of acute poisoning with barbiturates and benzodiazepines.
7. Define and classify the antidepressants and explain the clinical symptoms and management of acute poisoning of tricyclic anti-depressants.
8. Explain in details about the management of acute poisoning with ethanol and methanol.
9. Explain signs and symptoms and management of Paracetamol, NSAID and salicylates.
10. Discuss the acute poisoning with hydrocarbons.
11. Define and classify caustics? Explain clinical features and management of acute poisoning with inorganic acids and alkali.

SHORT ESSAYS:

1. Write a note on management of organophosphorus poisoning?
2. Mention the clinical features and management of carbamate poisoning.
3. Explain the management of opiate poisoning.
4. Write the clinical symptoms and management of TCA?
5. Discuss on barbiturate overdose and its management.
7. Discuss the clinical symptoms and treatment of acute poisoning with Barbiturates
8. Explain briefly clinical features and management of acute poisoning with ethanol.

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9. Briefly explain clinical features and management of acute poisoning with methanol.
10. Write the manifestation of alcohol withdrawal syndrome?
11. Explain the clinical symptoms and management of acute poisoning with paracetamol overdose.
12. Explain the clinical symptoms and management of acute poisoning with aspirin.
13. Explain the clinical symptoms and management of acute poisoning with salicylates.
14. Discuss the nephrotoxicity of NSAIDs.
15. Explain briefly clinical features and management of acute poisoning with inorganic acids and alkali.
16. Explain the clinical symptoms and management of acute poisoning with hydrocarbons.
17. Enumerate the clinical symptoms and management of acute poisoning with radiation poisoning.
18. Explain the clinical symptoms and complications of radiation poisoning.
Explain the hepatotoxicity of paracetamol.

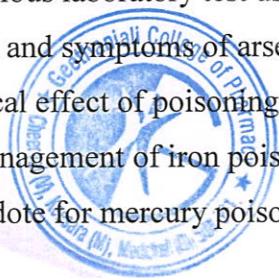
CHAPTER 8: Clinical symptoms and management of chronic poisoning with the following agents- Heavy metals: Arsenic, lead, mercury, iron, copper

LONG ESSAYS

1. Describe the clinical symptoms and management of chronic poisoning with the heavy metals.
2. Discuss the clinical symptoms and management of chronic poisoning with arsenic and lead.
3. Describe the clinical symptoms and management of chronic poisoning with iron, mercury and copper.
4. Discuss various heavy metal poisoning emphasizing the clinical symptoms and its management.
5. Enumerate the clinical symptoms, laboratory tests and management of chronic poisoning with Lead.

SHORT ANSWER

1. Mention the application of deferoxamine.
2. Enlist the application of chelating agents in heavy metal poisoning.
3. Write the laboratory test used for diagnosing lead poisoning.
4. Expand the BAL and DMSA.
5. Explain the clinical features of copper sulphate poisoning.
6. Discuss the various laboratory test used for diagnosing lead poisoning.
7. Write the signs and symptoms of arsenic poisoning?
8. Write the clinical effect of poisoning with mercury?
9. Explain the management of iron poisoning.
10. Write the Antidote for mercury poisoning?



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11. Enlist the treatment options for mercury poisoning.

HAPTER 9: Venomous snake bites: Clinical effects of venoms, general management as first aid, early manifestation complications and snake bite injuries

SHORT ESSAYS

1. Describe the signs and symptoms of venomous snake bite and its management.
2. Describe the Clinical effects of Venom, general first aid management for snake bite injuries?
3. Write a short note clinical effect of snake venoms?
4. Write the early manifestations, complications and management of snake bite injuries?
5. Enlist the signs, symptoms and treatment of snakebite poisoning.
6. Write the general first aid management for snake bite?

SHORT ANSWER

1. Write the differences between venomous and non-venomous snakes?
2. What is ASV?
3. Classify different type of venomous snakes.
4. Signs and symptoms of snake poisoning.
5. First aid measures for snake bite.

CHAPTER 10: Plants poisoning- Clinical symptoms and management of Mushrooms, Mycotoxins

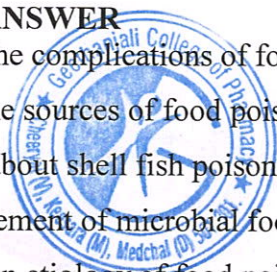
SHORT ANSWER

1. Add a note on Mycotoxins poisoning.
2. Write the management of Mycotoxins poisoning
3. Write the clinical symptoms of Mycotoxins poisoning
4. Discuss the clinical features of mushroom poisoning.
5. Write the management of poisoning with mushrooms.
6. Short note on aflatoxin.
7. Name toxic mushroom.
8. Classify the mushrooms with examples.
9. Name the poisonous mushrooms.

CHAPTER 11: Food Poisonings- Clinical symptoms and management of Food Poisonings

SHORT ANSWER

1. Give the complications of food poisoning.
2. Give the sources of food poisoning.
3. Write about shell fish poisoning
4. Management of microbial food poisoning.
5. Write on etiology of food poisoning



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6. Mention the importance of ORT in food poisoning
7. Write the general treatment measures for food poisoning
8. Write the significance of IV rehydration therapy in food poisoning.

CHAPTER 12: Envenomations- Clinical symptoms and management of Arthropod bites and stings
SHORT ANSWER

1. What are the Clinical effects of arthropod bites and stings?
2. Write the management for Arthropods bite.
3. Discuss the management of scorpion bite.
4. Write the signs and symptoms and first aid for scorpion bite?
5. First aid of arthropod bites.
6. Write the signs and symptoms of wasp bite.

HAPTER 13: Substance abuse- Signs and symptoms of substance abuse and treatment of dependence a) CNS stimulants: Amphetamine, b) Opioids, c) CNS depressants, d) Hallucinogens:LSD, e) Cannabis group , f) Tobacco

- 1 Write the clinical features and management of substance abuse of CNS depressants?
- 2 Explain the clinical symptoms and management of cannabis dependence?
- 3 Discuss the clinical symptoms and management of hallucinogens and tobacco abuse.
- 4 Diazepam substance abuse.
- 5 Describe the Abuse potential of amphetamine.
- 6 Discuss the DSM-IV criteria for substance abuse.
- 7 Explain the management of cocaine detoxification.
- 8 Mention the role of nicotine therapy in smoking cessation.
- 9 Short note on tobacco dependence.
- 10 Explain the hallucinogenic drug abuse.



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Code No: PD406

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Pharm.D IV Year Supplementary Examinations, October/November - 2019

CLINICAL TOXICOLOGY

Time: 3 hours

Max.Marks:70

Answer any five questions
All questions carry equal marks

- 1.a) Describe the gut decontamination.
b) Write a note on alcohol poisoning and its treatment. [7+7]
2. Explain in detail about general principle involved in the management of poisoning. [14]
- 3.a) Write briefly about non-steroidal anti-inflammatory drugs overdose.
b) Write about treatment for radiation poisoning. [7+7]
4. Write a note on:
a) Arsenic poisoning and its treatment.
b) First aid measures of snake poisoning. [7+7]
- 5.a) Write the management of acute poisoning of mycotoxins.
b) Write about the management of mushroom poisoning. [7+7]
- 6.a) Write briefly about cannabis and LSD.
b) Write briefly about antidepressants. [7+7]
7. Write a note on:
a) Food poisoning.
b) Alkaline poisoning. [7+7]
- 8.a) Write the signs and symptoms of drug abuse and treatment of tobacco use.
b) Write a note on antidotes and their clinical applications. [7+7]



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Code No: PH406

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
Pharm.D(Post Baccalaureate) I Year Regular Examinations, June/July -2019
CLINICAL TOXICOLOGY

Time: 3hours

Max.Marks:70

Answer any five questions
All questions carry equal marks

- 1.a) Write the clinical symptoms and management of chronic poisoning with Lead. [7+7]
b) Describe the clinical symptoms and management of Mercury. [7+7]
- 2.a) Explain the general principles involved in the management of poisoning.
b) What are antidotes and write the importance and applications of antidotes? [7+7]
- 3.a) Discuss in detail about supportive care in Clinical toxicology. [7+7]
b) Explain in detail about Toxicokinetics. [7+7]
- 4.a) What is Envenomations? Explain in detail with examples. [7+7]
b) Describe plant poisoning with examples. [7+7]
- 5.a) Write a detail note on non steroidal anti inflammatory drugs.
b) Describe different types of venomous snakes and write the general management of first aid of snake bite. [7+7]
- 6.a) Describe the clinical manifestations abuse of Opioids. [7+7]
b) Explain the symptoms and treatment of dependence of LSD. [7+7]
- 7.a) Explain the signs and symptoms of acute poisoning of Paracetamol and Ethanol.
b) Write the Clinical symptoms and management of acute poisoning with Petroleum products and PEG. [7+7]
- 8.a) Describe the clinical symptoms and management of acute poisoning with Pesticide poisoning. [7+7]
b) Write about Organophosphorous and Pyrethroids poisoning. [7+7]

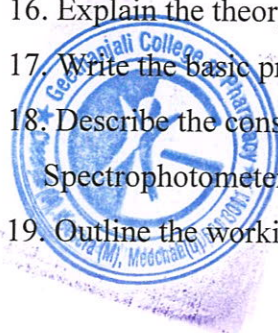


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PHARMACEUTICAL ANALYSIS PHRM.D III YEAR

QUESTION BANK {14MARKS}

1. Discuss the principle & development techniques used in column chromatography Add a note on the adsorbents mobile phase & detection systems in column chromatography.
2. Write a note on development techniques in column chromatography.
3. Describe the preparation, activation of plates & adsorbents used in the TLC & write its application.
4. Define paper chromatography? What are the modes of development of paper chromatography & Enumerate the application of paper chromatography.
5. Give a detailed account of principle, classification of Ion-Exchange process in pharmaceutical analysis.
6. What are the Ion-Exchange resins? Explain Mechanism of Ion-Exchange process and application of Ion-Exchange chromatography.
7. Explain with a neat diagram any three detectors used in Gas Chromatography.
8. Describe the construction and working of a Gas Chromatography? Emphasize on the ideal characteristics of stationary phases and mobile phases used in Gas Liquid Chromatography.
9. Describe instrumentation and application of HPLC.
10. Describe the principles and application of Electrophoresis.
11. Explain various methods of preparing TLC plates and its application.
12. How development is carried out in column chromatography, T.L.C. & Paper chromatography.
13. Describe the principle of a Potentiometric titrations? Write the construction and working of a calomel electrode & glass electrode?
14. Give an account of the construction and working of glass electrode? Write the application of potentiometric titrations.
15. Describe the construction and working, advantages, disadvantages & application of a Standard Hydrogen Electrode.
16. Explain the theory & the types of Conductometric Titrations.
17. Write the basic principle of a potentiometry .Describe in detail Dead Stop End point techniques.
18. Describe the construction and working of a Double- Beam Recording Dispersive IR Spectrophotometer with its advantages and disadvantages.
19. Outline the working of a double beam recording of UV/Visible spectrophotometer .Name each



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Raichur (K), Mechanical Dept. T.S.-501301

part of the system & its functioning.

20. Describe the construction and working of Double-Beam UV/Visible spectrophotometer.

Mention the advantages of double beam over single beam spectrophotometer.

21. a) Derive Beer's & Lamberts Law .b) what are the applications advantages and limitations of Beer's law.

22. Describe the principle and Application of IR Spectroscopy for the following A) Detection of functional group(two example) B) Study of Hydrogen Bonding.

23. Explain the principal instrumentation and factors affecting fluorescence intensity.

24. Describe the Instrumentation and application of HPLC.

25. Explain with the help of a neat diagram, the construction and working of UV/Visible spectrophotometer with special emphasis on the monochromators and detectors present in them.

26. Describe the instrumentation of I.R. Spectrometry.

27. How are different samples handled (solid,liquid,and gaseous) in I.R. Spectroscopy.

28. List out the sources of UV,Visible spectrophotometers and I.R.Spectrometers.

29. What are pharmaceutical application of fluorimetry? How is fluorimetry more sensitive and specific than spectrophotometry.

30. Discuss the phenomenon of fluorescence. Explain the working of fluorimeter with suitable diagram?

(4 MARKS)

1. Explain the term a) HETP b) Retention time c) Theoretical plate d) Retention volume.

2. Define HPLC & write a note on detectors present in HPLC.

3. Write a note on Guard Column and its significance.

4. What are the techniques of separation in HPLC based on a) Principle of separation b) Elution Techniques c) Types of analysis d) Scale of operation.

5. What is the principle in a) Normal-Phase Chromatography b) Reverse -Phase Chromatography c) Ion- Exchange Chromatography d) Ion-pair Chromatography.

6. Define chromatography? What are the principles of separations in chromatography.

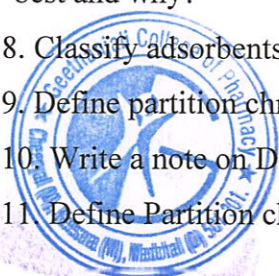
7. Explain the different packing techniques in column chromatography which packing techniques is best and why?

8. Classify adsorbents used in column chromatography with example.

9. Define partition chromatography and write a note on factors affecting column efficiency.

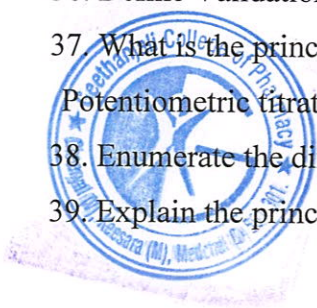
10. Write a note on Development Techniques in column chromatography.

11. Define Partition chromatography & write a note on Bonded Phase Chromatography.



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12. Write a note on Frontal Analysis & Bonded Phase Chromatography.
13. Describe the preparation activation of plates & adsorbents used in TLC.
14. Define paper chromatography? What are the modes of development in paper chromatography.
15. Explain two dimensional & Reverse-phase Chromatography.
16. Explain various development techniques used in paper chromatography.
17. Enumerate the application of paper chromatography.
a) alkaloid b) Cardiac glycoside c) Aldehydes or ketones d) proteins.
18. How will you perform quantitative analysis in paper chromatography.
19. Compare the principle techniques limitations and application of paper chromatography with electrophoresis.
20. How does the following factors affect separation efficiency a) cross-linking of Resin b) Ion-Exchange Capacity.
21. Write a note on factors affecting the separation efficiency of Ion exchange resin.
22. What is regeneration of a resin? How will you regenerate cation and anion exchange resin.
23. Explain with a neat diagram any two detectors used in G.C.
24. Explain the concept of pre-derivatization & post derivatization techniques in Gas –Chromatography with relevant examples.
25. write a note on paper electrophoresis.
26. What is electrophoresis? Mention their types.
27. Describe the principles and application of electrophoresis.
28. Write a note on HPTLC.
29. Write a note on instrumentation and application of HPTLC.
30. Define Validation? Classify and explain each type in briefs.
31. Define & Explain (1) Accuracy (2) Precision (3) Significant figure.
32. Describe different steps involved in validation master plan.
33. Explain the procedure to calibrate wavelength of UV Instrument.
34. Write a note on ICH Guidelines.
35. Describe the pharmaceutical water system Validation.
36. Define Validation? Explain types of “process Validation”?
37. What is the principle in potentiometric titration and How is the end point determined in Potentiometric titrations.
38. Enumerate the different reference electrodes & Indicators electrodes in potentiometric titrations.
39. Explain the principle underlying “Dead- Stop end point technique” and Null point potentiometry.



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40. Explain with graphs the methods of potentiometric end point determination.
41. With titration curves, describe the principles of Conductometric titrations?
42. Explain with graph, the conductometric titration of a mixture of weak & strong acids with alkali.
43. Explain the conductometric titration curve for strong acids against weak base?
44. What is quenching? Explain various types of quenching with suitable examples?
45. What is the number of Fundamental Vibration modes for linear and non-linear molecules containing 'n' atoms? Explain how these numbers are obtained.
46. What is nebulization? Write a note on types of Burner's used in Atomic emission spectrometer.
47. Depict the different modes of fundamental vibrations in a tri-atomic group (stretching & deformation) by means of a neat sketch for each mode.
48. Explain what is meant by allowed transition and forbidden transition of valence electron in absorption spectroscopy.
49. Describe the terms fluorescence & phosphorescence Depict both the phenomena by energy diagram.
50. What is flame emission & atomic Absorption spectrometry? How do you estimate the amount of sodium by the above techniques.
51. Explain the different modes of fundamental vibrations occurring in IR Spectroscopy.
52. What are the factors affecting the fluorescence.
53. Write a note on spectrophotometric titration.
54. Explain deformation vibrations in IR Spectroscopy.
55. What are the effect of solvent & conjugation in UV Spectroscopy.
56. Write the structure and chemical name of BMR Reagent. Write the principle involved in the reaction of BMR. with Sulphanilamide along with chemical reactions.
57. State & explain the mathematical expression for Beer's & Lamberts Law.
58. Explain the term- Red Shift, Blue Shift, hypochromic shift, hyperchromic shift giving suitable examples for each along with λ_{max} and Σ values.
59. What is chromophore & auxochrome? Give two examples of each term.
60. What is the effect of polar & Non-polar solvent on $\pi-\pi^*$ transition of alkenes ? Give one example of each case with λ_{max} and Σ values.
61. Depict their energy diagram with respect to sigma bond , π -bond & non-bonding electrons on absorption of UV energy.
62. What are K bands, R-bands, B-bands & E-bands. Give their significance individually.
63. Explain why UV/Visible Spectroscopy is widely applicable in pharmacy

64. Give any four Important application of UV & Visible absorption spectroscopy.
65. How do you determine the amount of paracetamol in a given tablet according to IP by means of UV using 1cm cell ($a=0.715$ at 257nm).
66. Write a short note on ORD & give its applications.
67. Describe why UV/Visible spectrometry is widely used for assay of a drug sample than other methods.
68. What is the minimum requirements for a molecules to show I.R bands.State selection rule for exhibiting IR Vibrations.
69. What are the different sampling techniques for mounting a sample in the form of a solid, thin film, liquid or gas in the beam of IR spectrometer.
70. Why carbon-di-oxide shows some IR bands though the molecule as a whole does not possess any dipole moment?
71. Give approximate stretching wave number values for the following groups C=O, C=N, C=C, C \equiv N.
72. What is the basic requirement for a nucleus to exhibit NMR phenomenon?
73. What are the main advantages of mass spectrometry.
74. Calculate (a) frequency (b) wave number) for the radiation of wavelength 530nm.($c=38 \times 10^8$ m/s).
75. Calculate the wavelength corresponding to a radiation in which the energy of photon 5×10^{-22} J.
76. Calculate the frequency of a radiation of wavelength 700nm.
77. Give reason why you will get absorption curve rather than peak in Ultraviolet regionfl.
78. What are the factors affecting.fluorescence and phosphorescence?
79. What is Quenching? Explain various types of quenching with suitable examples?
80. What are self quenching and true quenching.
81. Show the relationship between fluorescence intensity and concentration. Describe any four factors that influence fluorescence intensity?



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Code No: PH302

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
Pharm.D III Year Supplementary Examinations, October/November - 2019
PHARMACEUTICAL ANALYSIS

Time: 3 hours

Max.Marks:70

Answer any five questions
All questions carry equal marks

1. a) Write notes on quality control charts. [5+4+5]
b) Write the concept of quality assurance.
c) Write the benefits of total quality management.
2. a) Write the principle of thin layer chromatography (TLC) and add note on developing reagents used in TLC. [7+7]
b) Write the principle and applications of paper chromatography.
3. a) Explain the following:
i) HETP ii) Normal phase chromatography [6+8]
b) Write in detail about the theory and instrumentation of GLC.
4. a) Write about the following:
i) Principle and applications of HPTLC ii) Ion exchange chromatography. [8+6]
b) Write the instrumentation and applications of HPLC.
5. a) Write the construction and working of glass membrane electrode.
b) Write about the following:
i) Dropping mercury electrode ii) Principle of conductometric titrations. [7+7]
6. a) Write the theory involved and applications of amperometric titrations. [7+7]
b) Explain the principle and applications of affinity chromatography.
7. a) Explain in detail about Beer-Lambert law and its limitations.
b) Write about the following:
i) Monochromators ii) Pyroelectric detector. [8+6]
8. a) Write about the theoretical principle and applications of atomic absorption spectrometry. [6+4+4]
b) Write short notes on optical rotary dispersion.
c) Write the principle and any two applications of mass spectrometry.

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Code No. 32

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Pharm.D III Year Regular Examinations, April/May - 2019

PHARMACEUTICAL ANALYSIS

Time: 3 hours

Max.Marks:70



Answer any five questions
All questions carry equal marks

- 25 25 25 25 25 25
1. Explain in detail the Construction and Working of a UV visible double beam spectrophotometer. Give the applications of UV-visible Spectroscopy in pharmacy. [14]
2. Write a note on the various stationary phase and mobile phase used in ion exchange chromatography. Also discuss in brief the factors affecting ion exchange chromatography. [14]
3. Discuss in detail:
a) Polarographic wave and Ilkovic Equation.
b) Construction and Working of a Dropping Mercury Electrode. [5+9]
4. Explain in brief the following:
a) Different developmental techniques in Paper chromatography.
b) Applications of paper electrophoresis. [7+7]
5. Write a note on the following:
a) Quality Review and Documentation.
b) ISO 9000. [7+7]
6. Discuss in detail the theory, Instrumentation and applications of flame photometry. [14]
7. Explain in brief the following:
a) Instrumentation of Differential scanning Colorimeter.
b) Types of Pumps used in HPLC. [7+7]
8. Enumerate the applications of Conductometry with importance to various conductometric titrations performed. [14]
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PHARM D II YEAR-PATHOPHYSIOLOGY

QUESTION BANK

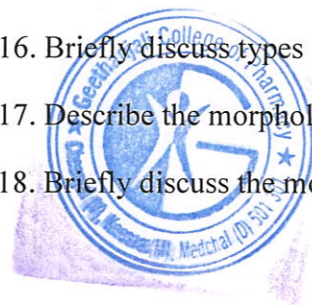
Unit-1. Basic principles of cell injury and adaptation

Long answer Questions

1. What are cellular adaptations? Give examples.
2. Explain the various types of cell injury with examples? Discuss the Etiology of cell injury.
3. Describe the pathogenesis of reversible cell injury induced by hypoxia/ischemia.
4. Describe the pathogenesis of irreversible cell injury induced by hypoxia/ischemia.
5. Explain etiology, Pathogenesis, and morphology of reversible cell injury.
6. Explain the causes, pathogenesis, and morphology of irreversible cell injury.
7. Explain the etiology, pathogenesis, and morphology of cell injury.
8. Enlist the etiological agents causing cell injury. Describe the pathogenesis of reversible cell injury induced by hypoxia/ischemia.

Short answer questions

9. What is Cell Injury? Discuss the various factors influencing Cell Injury?
10. What are the various biochemical intracellular accumulations found in Cell Injury?
11. What is Hyperplasia? What is Physiological Hyperplasia and Pathological Hyperplasia?
12. What is Necrosis? Write about the Pathogenesis of Necrosis?
13. Write the principles involved in the pathogenesis of cell injury by various agents.
14. With the help of a diagram differentiate ultra-structural changes between reversible and irreversible cell injury due to hypoxia/ischemia.
15. Write the mechanism of free radicals induced cell injury.
16. Briefly discuss types of necrosis.
17. Describe the morphology of reversible cell injury [Degeneration]
18. Briefly discuss the morphology of irreversible cell injury



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19. Pathogenesis of reversible cell injury.
20. Describe biochemical changes during cell injury.
21. Explain the process of apoptosis.
22. Discuss the role of lipid metabolism in the pathogenesis of fatty liver.
23. Discuss the abnormalities in hypoproteinaemia resulting in fatty liver.
24. Explain in detail glycogen storage diseases with examples
25. What is lipoproteinemia? Classify abnormalities in lipoproteinemia and explain with examples
26. Define and classify Gangrene and write the difference between wet and dry gangrene.
27. Explain pathologic calcification and necrosis.
28. Define hyperlipidemia and discuss the types of hyperlipidemic diseases.

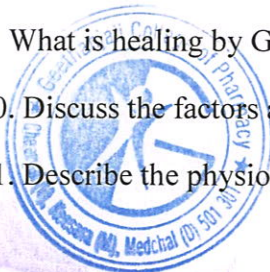
Unit-2.Inflammation

Long answer Questions

1. What are the various cellular events in acute Inflammation?
2. What are the various chemical mediators of Inflammation?
3. Write in detail the vascular events involved in the process of Inflammation.
4. List out the Chemical mediators and their role in the process of inflammation.
6. Explain the process of wound healing.

Short answer questions

7. Explain the process of healing by Primary Intention?
8. What is healing by Secondary Intention?
9. What is healing by Granulation tissue formation?
10. Discuss the factors affecting wound healing.
11. Describe the physiological and pathological significance of prostaglandins.



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12. Briefly discuss plasma-derived mediators of acute inflammation.
13. Explain the pathogenesis of chronic inflammation.
14. Explain the role of autacoids in inflammation.
15. Differentiate between acute and chronic inflammation.
16. Differentiate between regeneration and fibrosis.
17. Explain Granulomatous inflammation.
18. Explain the process of phagocytosis

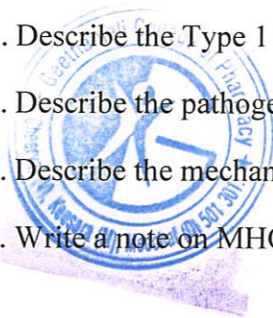
Unit-3.Diseases of Immunity

Long answer Questions

1. What are the different types of hypersensitivity reactions? Describe the Type 1 hypersensitivity reaction.
2. Define autoimmunity and Classify autoimmune disease and describe the mechanism of autoimmunity.
3. What is an allograft? What are the various mechanisms involved in the rejection of allograft?
4. Discuss in detail the pathogenesis of HIV infection.

Short answer question

5. Briefly explain the mechanism of immune tolerance.
6. Write a note of Type II hypersensitivity reaction.
7. Write a note Type III hypersensitivity reaction.
8. Write a note of Type IV hypersensitivity reaction.
9. Discuss the mechanism of allograft rejection.
10. Differentiate between cell-mediated and humoral immunity
11. Describe the Type 1 hypersensitivity reaction.
12. Describe the pathogenesis of HIV infection
13. Describe the mechanism of autoimmunity.
14. Write a note on MHC antigens.



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15. Briefly discuss components of immune systems

Unit-4.Cancer

Long answer Questions

1. Write the mechanism of invasion of tumor.
2. Define metastasis; briefly discuss the routes of metastasis.
3. Discuss the pathogenesis of cancer.
4. What is carcinogenesis. Explain the various types of carcinogenesis.

Short answer questions

5. Characteristics of Tumor cells
6. Explain the promotion of carcinogenesis.
7. Explain sequential stages in chemical carcinogenesis.
8. Discuss the pattern of spread of cancer.
9. Write the difference between benign and malignant tumors.
10. Briefly discuss the mechanism of viral oncogenesis.
11. Classify malignant tumors
12. Briefly outline the molecular mechanism of cancer.
13. Explain the histological diagnosis of tumors.
14. Write a note on the staging and grading of cancer.

Unit-5. Shock

Long answer Questions

1. Discuss the various stages of Shock?
2. Discuss the etiology and pathogenesis of shock.
3. Discuss the mechanism involved in stages of shock.
4. Explain the mechanism of cardiogenic shock.
5. Explain the mechanism of Hypovolemic shock and its management.

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6. Explain the end-organ changes involved in shock.

Short answer questions

7. Define shock, Mention the types of shock.
8. Enlist the clinical features of decompensated shock.
9. What is early or compensated shock?
10. What is progressive or decompensated shock?
11. What is Irreversible shock?
12. Write the mechanism of septic shock
13. Write the mechanism of cardiogenic shock.

Unit-6. Biological effects of radiation

Long answer Questions

1. What are the various effects of Radiation?
2. How do UV radiations affect the biological system? Explain
3. Explain the biological effects of radiation.

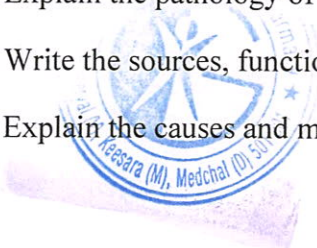
Short answer questions

4. Enlist types of Ionizing and Nonionizing radiations?
5. Mention the toxic effects of radiation.
6. What is Radiation sickness
7. Write the Therapeutic applications of Radiations.
8. Write about the biological effects of radiation.

Unit-7. Environment and Nutritional diseases

Long answer Questions

1. Explain the pathology of obesity.
2. Write the sources, functions, and deficiency disorders of water soluble vitamins.
3. Explain the causes and metabolic changes of starvation.



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4. Explain the etiology and metabolic changes in obesity.
5. Explain the pathogenesis of protein-calorie malnutrition.
6. Write the sources, functions, and deficiency disorders of fat soluble vitamins.

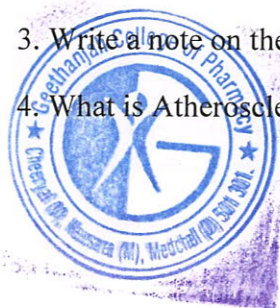
Short answer questions

7. Name two fat-soluble vitamins and their function.
8. Enlist Water-soluble vitamins.
9. Enlist Vitamin-D deficiency disorders.
10. Differentiate between Marasmus and Kwashiorkor.
11. Write the Complication of obesity.
12. What is Scurvy?
13. Enlist Air pollutants and their effects.
14. Write the symptoms of Carbon monoxide poisoning.
15. Write the effects of cigarette smoking.
16. Explain Toxic effects produced by SO₂?
17. Explain the Toxic effects produced by NO?
18. What is megaloblastic anemia
19. Write the causes, signs, and symptoms of Rickets.
20. What are the effects of protein-calorie malnutrition

Unit-8.Pathophysiology (etiology, pathogenesis, signs, and symptoms) of common diseases/disorders

Long answer Questions

1. Define hypertension. Discuss the pathogenesis of essential hypertension.
2. Define the angina pectoris. Briefly discuss the types and pathogenesis of angina.
3. Write a note on the myocardial infarction and its clinical diagnosis.
4. What is Atherosclerosis? Explain the pathogenesis involved in Atherosclerosis

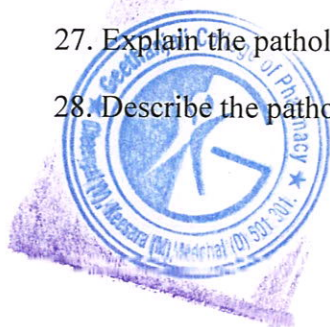


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5. Explain the pathogenesis of peptic ulcer disease.
6. What are metabolic disorders? Explain the pathogenesis of diabetes mellitus.
7. Write in detail the pathogenesis of Parkinsonism.
8. Describe the etiology, pathogenesis, and diagnosis of Asthma
9. Explain the pathogenesis of Stroke.
10. Explain the various types of Angina and their implications on ECG.

Short answer questions

11. Explain depression and mania.
12. Write a note on pneumonia.
13. Write the pathogenesis of Angina pectoris.
14. Write the cause and pathogenesis of Parkinsonism.
15. Explain the pathogenesis and clinical symptoms of Asthma.
16. Write a note on the risk factors of atherosclerosis.
17. Define infarction. Briefly write the morphology and clinical significance of infarction.
18. Write about the development of irritating bowel syndrome.
19. Explain the development of alcoholic liver disease and cirrhosis.
20. Explain the Pathogenesis of peptic ulcer.
21. Explain the Pathogenesis of tuberculosis.
22. Describe the Pathophysiology of hypertension.
23. Describe the pathogenesis of schizophrenia.
24. Explain the pathogenesis and clinical symptoms of CCF.
25. Describe the pathophysiology of chronic renal failure.
26. Explain the pathophysiology of congestive cardiac failure.
27. Explain the pathological role of renin-angiotensin aldosterone system.
28. Describe the pathogenesis of type 2-diabetes Mellitus.



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29. With the clinical symptoms, explain the pathogenesis of Parkinsonism.
30. Explain the pathogenesis of Asthma
31. Explain peptic ulcer and inflammatory bowel disease.
32. What are the pathological changes in asthma?
33. Explain the Pathogenesis of acute renal failure.

Unit-9.Pathophysiology (causative organisms, mode of transmission, pathogenesis, signs and symptoms) of infectious diseases

Long answer questions

1. Describe the pathology of sexually transmitted diseases.
2. With the clinical symptoms explain the pathogenesis of syphilis.
3. Explain the etiology, pathogenesis, signs, and symptoms of Malaria.
4. Explain the etiology, pathogenesis, signs, and symptoms of Tuberculosis.
5. Explain the etiology, pathogenesis, signs, and symptoms of Leprosy.
6. Explain the etiology, pathogenesis, signs, and symptoms of Pneumonia.

Short answer questions

7. Name the causative organism for Amoebic and bacterial dysentery.
8. Name the causative organism for Urinary tract infection.
9. Enlist the types of pneumonia.
10. Name the causative agent, mode of transmission, signs, and symptoms for Typhoid.
11. Name the causative agent, mode of transmission, signs, and symptoms for Gonorrhoea.
12. Write the causative agent, mode of transmission, signs, and symptoms of Leprosy.
13. Write the causative agent, mode of transmission, signs, and symptoms of Pneumonia.
14. Write the causative agent, mode of transmission, signs, and symptoms of Malaria.
15. List any two STD and their causative organisms.



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16. Write the causative agent, mode of transmission, signs, and symptoms of Urinary tract infection.
17. Write the diagnostic tests for Typhoid, Malaria.
18. Write the laboratory diagnosis of Leprosy and Syphilis.
19. How do you distinguish between bacterial and amoebic dysentery.
20. Write the diagnostic tests for HIV infection.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Pharm.D II Year Regular Examinations, March/April - 2018

PATHOPHYSIOLOGY

Time: 3 hours

Max.Marks:70

Answer any five questions
All questions carry equal marks

- 1.a) Write a note on morphology of cell injury.
b) Write a note on abnormalities of lipoproteinaemia. [7+7]
- 2.a) Write a note on chemical mediators involved in inflammation.
b) Write a note on factors influencing wound healing. [7+7]
- 3.a) Write a note on mechanisms of allograft rejections in transplantations.
b) Write a note on invasion and metastasis of cancer. [7+7]
- 4.a) Write a note on mechanisms for different types of shock.
b) Write a note on pathogenesis of starvation. [7+7]
- 5.a) Explain in detail about various vitamin deficiency disorders.
b) Explain about environmental air pollution diseases. [7+7]
- 6.a) Describe the pathophysiology of Myocardial infarction.
b) Describe the pathophysiology of peptic ulcer. [7+7]
- 7.a) Write a note on the etiology and pathophysiology of acute renal failure.
b) Describe the pathogenesis of hemorrhagic stroke. [7+7]
- 8.a) Describe the pathophysiology of chronic obstructive airway diseases.
b) Write a note on the etiology and pathophysiology of tuberculosis. [7+7]

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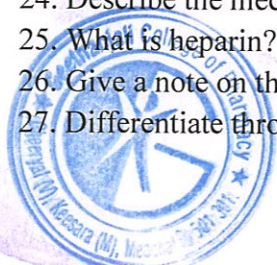
B.PHARM III YR-I SEM (18Z) PHARMACOLOGY-II(2018-2022 BATCH) QUESTION BANK:

UNIT -I

1. Define angina pectoris?
2. Classify anti anginal drugs with examples?
3. Write briefly on Digitalis?
4. Write notes on Cardiac glycosides?
5. What is Hypertension?
6. Classify anti- hypertensives, with suitable Examples?
7. Write briefly on ACE inhibitors?
8. Write short notes on centrally acting anti-hypertensives?
9. Explain the mechanism of action, Write the dose and therapeutic uses of Diltiazem?
10. Write briefly on methyl dopa?
11. Discuss the mechanism of action and therapeutic uses of vasodilators?
12. Explain the pharmacological actions of β - adrenergic blocking agents?
13. Write short notes on β - blockers?
14. Write the dose therapeutic uses and adverse effects of atenolol?
15. What is arrhythmias?
16. Discuss various types of arrhythmias.
17. Explain the pharmacology of Quinidine.

UNIT-II

18. Explain about different types of shock?
19. Define shock.
20. Write notes on drugs used in the therapy of shock.
21. write short notes on chemical signals that promote platelet aggregation?
22. Classify anti coagulant drugs?
23. Discuss in detail about oral anticoagulants?
24. Describe the mechanism of action therapeutic uses of dicumorol?
25. What is heparin? And write pharmacological actions of heparin?
26. Give a note on the mechanism of action of dipyridamole?
27. Differentiate thrombolytic agents?



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28. Discuss briefly on haematinics?
29. Write the mechanism of action of iron distribution in the body?
30. Write in detail about folic acid?
31. What are diuretics?
32. Write about the pharmacological actions of acetazolamide as diuretic?
33. Explain the pharmacology of loop diuretics?
34. Explain how frusemide acts as a diuretic?
35. Discuss the mechanism of action, uses and side effects of spiranolactone.
- 36.

UNIT III

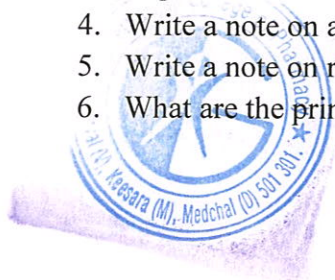
1. Classify autacoids with suitable examples?
2. Define serotonin receptors and explain its types with drugs examples.
3. Describe the steps involved synthesis and metabolism of bradykinin.
4. What are H₂ Antagonists with examples and their mechanism of action?
5. Explain in brief the pharmacological actions of Histamine.
6. Discuss the physiological functions of Histamine.
7. Add a note on therapeutic uses of 5-HT antagonists.
8. How bradykinin is synthesized in our body?
9. Write about the mechanism of action of leukotrienes?
10. Write about bradykinin and substance-P?

UNIT -IV

1. What is Diabetes Mellitus and explain the physiological effects of Insulin?
2. Classify the oral hypoglycemic agents with examples?
3. Mention various types of Insulin preparations.
4. Classify anti-thyroid drugs and briefly explain the mechanism of action of methimazole.
5. Write short notes on Anti-tussives and Expectorants.
6. Explain the structure of Insulin.
7. List out the anti-thyroid drugs.
8. Write a note on Metformin

UNIT -V

1. Define Bioassay? Explain the bioassay of digitalis ?
2. Explain the bioassay of HCG?
3. Explain the bioassay of Oxytocin?
4. Write a note on antitussives.
5. Write a note on respiratory stimulants?
6. What are the principles of bioassays?



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7. Write about end-point bioassay with two examples.
8. Write the bioassay of D-Tubocurarine?
9. Write briefly on oral contraceptives.
10. Explain briefly about adrenal steroids?

LONG ANSWER QUESTIONS

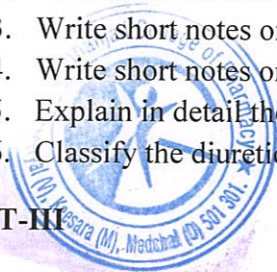
UNIT –I

1. What is congestive heart failure and explain the pathophysiology of congestive heart failure?
2. What are cardiac glycosides? Explain mechanism of positive inotropic action of cardiac glycosides with neat labelled diagram?
3. Write a note on drugs used to inhibit the angiotensin system?
4. Discuss the pharmacology of calcium channel blockers; Write the dose, therapeutic uses and side effects of three compounds from this class?
5. Explain in detail about α -adrenergic receptor antagonists?
6. Write the pharmacokinetics and pharmacodynamics of β -blockers?
7. Write short notes on β -antagonists with α - blocking property?
8. Write short notes on general treatment of hypertension?
9. Explain in detail the treatment of shock and mechanism of action of those drugs?
10. Explain re-entrant arrhythmias?
 - a. Circus movement type
 - b. Micro re-entry
11. Discuss the pharmacology of class-I anti arrhythmic drugs?
12. Write a note on drugs used as class-II and class-III anti arrhythmic drugs?
13. Discuss the detailed pharmacology of calcium channel blockers?
14. Define nitrates? Discuss the pharmacology of organic nitrates?
15. Write short notes on treatment of angina pectoris?
16. Explain the drug therapy used in coronary artery disease?
17. Discuss briefly about lipid lowering drugs?
18. Treatment of myocardial infarction?

UNIT-II

1. Give a brief account of haemopoiesis and physiology of blood coagulation?
2. State the interaction of heparin with protamine sulphate?
3. Write short notes on antiplatelets and discuss in detail about antiplatelet drugs?
4. Write short notes on plasma volume expanders and plasma substitutes?
5. Explain in detail the physiology of urine formation?
6. Classify the diuretic drugs and write pharmacology of loop diuretics?

UNIT-III



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7. Classify H1 receptor antagonists and write their pharmacological effects, adverse reactions and therapeutic uses.
8. Write the biosynthesis and pharmacological actions of prostaglandins and thromboxanes.
9. Explain in detail about histamine, 5-HT receptors and its antagonists.
10. Discuss pharmacological actions of prostaglandins.
11. Discuss in detail about Bradykinin and substance P?
12. Mention about therapeutic uses and adverse effects of:
 - a) Prostaglandin analogues

UNIT – IV

1. Classify the drugs acting on endocrine system and its medicinal uses?
2. Discuss the mode of action of oral contraceptives.
3. Explain the pharmacological actions of glucocorticoids.
4. Mention the hormones secreted by adrenal cortex. Explain the pharmacological actions, adverse effects and therapeutic uses of glucocorticoids.
5. Discuss in detail the MOA, Uses and Adverse effects of Glucocorticoids.
6. Discuss the pharmacology of anti-thyroid agents.
7. Write the mechanism of action and therapeutic uses of insulin and thyroid hormone.

UNIT – V

1. Define bioassay and classify various types of bioassays? Explain the bioassay methods available for the assay of oxytocin.
2. Define bioassay. Explain the various types of errors in bioassay? Describe in detail the principle involved in bioassay?
3. Explain the procedure in bioassay of D-Tubocurarine.
4. Explain the pharmacology of Biguanides.
5. Write the drug classification of oral contraceptives? And write the mechanism of post coital pills?
6. Classify Oral contraceptives and write the mechanism of action and adverse effects.



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Code No: 226AC

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Pharmacy III Year II Semester Examinations, December - 2019

PHARMACOLOGY - II

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART-A

(25 Marks)

- 1.a) Define Hypertension and name any two drugs to treat it. [2]
- b) Mention any four calcium channel blockers [3]
- c) Name some Potassium sparing diuretics [2]
- d) Name any two anti diuretic drugs and their uses. [3]
- e) What is Triple Response? [2]
- f) Explain Substance P. [3]
- g) What are the advantages and disadvantages of Bioassay? [2]
- h) What are expectorants? Give few examples. [3]
- i) Write short notes on ethinyl estradiol. [2]
- j) Explain the pharmacology of Propylthiouracil [3]

PART-B

(50 Marks)

- 2.a) Explain about Lignocaine as anti arrhythmic agent. [10]
 - b) Describe the MOA, uses and ADR of Digitalis. [10]
- OR
- 3.a) Write short notes on Losartan and Spironolactone. [10]
 - b) Explain the pharmacology of Quinidine. [10]
- 4.a) Describe the MOA and uses of anti hyperlipidemic drugs. [10]
 - b) Explain the pharmacology of Warfarin. [10]
- OR
- 5.a) Classify the drugs used in coronary artery disease and give the general mechanism of action. [10]
 - b) Write a brief note on loop diuretics. [10]
- 6.a) Discuss the pharmacology and uses of H1 receptor blockers. [10]
 - b) Write in brief about Bradykinin. [10]
- OR
- 7.a) Explain the pharmacological actions of Histamine. [10]
 - b) Explain short notes on Prostaglandins. [10]

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8.a) Discuss the pharmacology of anti Tussive agents with examples.

b) Explain the bioassay of Digitalis.

[10]

OR

9.a) Explain the bioassay of D-Tubocurarine.

b) Discuss the pharmacology of anti-asthmatic agents.

[10]

10.a) Write short notes on estrogens in Oral contraceptives.

b) Explain the pharmacology of Biguanides.

[10]

OR

11.a) Describe the MOA and therapeutic uses of Carbimazole.

b) Discuss in brief the MOA and ADR of Glucocorticoids.

[10]

Z5 Z5 Z5 Z5 ~~OR~~ Z5 Z5 Z5 Z5

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PHARMACEUTICAL ORGANIC CHEMISTRY-II B-PHARMACY 2ND YEAR-1SEM

Question Bank:

UNIT 1

Short answer questions:

1. Define aromaticity?
2. Give the essential difference between Friedel-Crafts alkylation and acylation?
3. Benzene has three double bonds but it behaves like a saturated compound, why?
4. Why does benzene react at a slower rate than alkenes?
5. Write the name of ortho-para directing and meta directing groups?
6. What are benzene derivatives? Explain their nomenclature?
7. What is the molecular orbital structure of benzene?
8. Explain Huckel's rule?
9. Write a note on sulphonation and nitration?
10. Explain the reactivity of halogenation of benzene & its derivatives?
11. What is the effect of meta directing groups on the reactivity of benzene and its derivatives?

Long answer questions:

1. Explain resonance and Kekulé's structure of benzene?
2. Briefly explain the molecular orbital structure of benzene?
3. What is aromaticity? Explain Huckel's rule giving suitable examples?
4. Explain aromatic electrophilic substitution reactions of benzene?
5. Write a detailed note on Friedel-Crafts alkylation and Friedel-Crafts acylation?
6. What is the effect of substituents on reactivity and orientation of mono-substituted benzene?
7. Explain the structure and uses of DDT, BHC & Saccharin?
8. From the alkyl halides given below, which can undergo Friedel-Craft alkylation without rearrangement and why?
9. Why do electrophilic substitution reactions occur faster in toluene than benzene?
10. Why do electrophilic substitution reactions occur slowly in nitrobenzene than benzene?

UNIT II

Short answer questions

1. Out of ortho and para nitrophenols, which one has a higher boiling point and why?
2. On reaction with sodium hydroxide, phenol forms salts whereas alcohols do not. Why?
3. Write a short note on the structure of phenol?
4. What are phenols? How do they differ structurally from aromatic alcohols?
5. How can phenol be prepared from benzene sulphonic acid?
6. Give the mechanism of the Reimer-Tiemann reaction?
7. Write a note on Fries rearrangement?
8. Write a detailed note on Gattermann's synthesis?
9. Define aromatic amines?
10. What are 1^o, 2^o, 3^o aromatic amines?
11. What is ammonolysis?
12. Write Hofmann's degradation reaction?
13. What is the Schotten-Baumann reaction?

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14. Write any two methods for preparation of aromatic amines?
15. Write a note on basicity of aromatic amines?

Long answer questions:

1. Why N-Alkylanilines are stronger base than aniline?
2. Why aralkyl amines are stronger bases than aryl amines?
3. Why electron releasing groups increase the basicity of aromatic amines?
4. Why aromatic amines are weaker bases than ammonia and aliphatic amines?
5. Why aminogroup is protected during the substitution on aromatic amines?
6. Why m-chloroaniline is weaker base than p-chloroaniline?
7. Describe general methods of preparation of aromatic acids?
8. Discuss the effect of substituents on acidity of aromatic acid?
9. Explain acidic nature of aromatic carboxylic acid?
10. What is aromatic acid? Explain different methods of preparation?

UNIT-III

Short answer questions

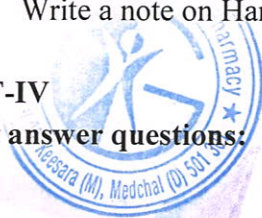
1. What is hardening of oils?
2. What are simple lipids?
3. Define iodine value. What does it indicates?
4. Write the name of any two drying, non drying and semi drying oils?
5. What is acid value? What does it indicates?
6. What is saponification value? What does it indicates?
7. Distinguish between oil and fat
8. Write brief note on rancidification?
9. Defines oils and fats. Give an example of each. Define their iodine and acid value.

Long answer questions:

1. Discuss the general properties of oils and fats with reference to hydrolysis, hydrogenation.
2. What are fats and oils? How do they differ from each other? How can be oil converted into a fat?
3. What is chemical character of fats? Explain difference between oils and fats. What is their industrial use?
4. Write a detailed note on the analysis of oils and fats?
5. Explain in detail iodine value?
6. Explain about detail saponification value?
7. Write about acid value?
8. Write a note on Hardening of oils?

UNIT-IV

Short answer questions:



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1. How will you synthesize 1-Naphtylamine from Naphthalene?
2. How will you synthesize 1-Naphthoic acid from Naphthalene?
3. What happens when anthracene is treated with bromine in CCl_4 ?
4. What happens when anthracene is treated with sodium dichromate and sulphuric acid?
5. What happens when naphthalene is treated with V_2O_5 at 500°C ?
6. What is Oleum?
7. How anthrone is prepared from anthraquinone?
8. Give various methods for synthesis of Naphthalene?
9. Comment on electrophilic substitution reactions of Naphthalene?
10. What are polynuclear hydrocarbons? Write down the oxidation and reduction reactions of Naphthalene?
11. Write short note on electrophilic substitution in naphthalene derivatives?
12. How will you synthesize anthracene?
13. Give chemical reaction and uses of diphenyl methane?

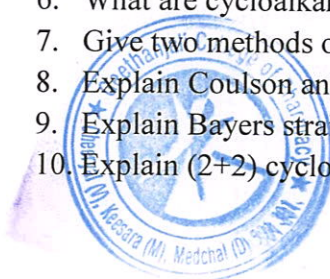
Long answer questions:

1. Describe synthesis and chemical reactions of Naphthalene?
2. Enumerate synthesis and chemical reactions of Anthracene?
3. Describe structure, synthesis and uses of Naphthalene?
4. Write a note on electrophilic substitution reactions of naphthalene?
5. Write a note on electrophilic substitution reactions of anthracene?
6. Discuss acylation of naphthalene in polar and non-polar solvents?
7. What happens when naphthalene is reduced with in presence of Ni or Pt?
8. Why do electrophilic substitution reactions in naphthane take place at α -position?
9. Write down synthesis of triphenyl methane?
10. Write chemical reactions and uses of tri phenyl methane.

UNIT V

Short answer questions:

1. What are cycloalkanes? Give their general formula and which class of aliphatic compounds are cycloalkanes isomeric?
2. What happens when 1, 3-Butadiene is react with ethane? What is the reaction known as?
3. Cyclopropane is the least stable member of cycloalkanes. Justify the statement.
4. Why large rings cycloalkanes are difficult to prepare?
5. Draw boat & chair conformations of cyclohexane?
6. What are cycloalkanes? How are they named according to IUPAC and common system?
7. Give two methods of preparation of cyclopropane?
8. Explain Coulson and Moffit's modification?
9. Explain Bayers strain theory?
10. Explain (2+2) cyclo addition reaction?



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11. Explain sachemohr theory?

Long answer questions:

1. What is Bayers strain theory and what are its limitations?
2. What are cycloalkanes? Give any three methods for the preparation of cycloalkanes?
3. Explain physical and chemical properties of cycloalkanes?
4. Write a note on addition reactions of cycloalkanes?
5. Explain theory of strainless rings?
6. Write a note on (2+2) cyclo addition reaction?
7. Write the conformations of cyclohexane?
8. How will you prepare cycloalkane derivatives by Diels Alder method?
9. Write any 3 methods of preparation of cyclopentane?
10. Explain why melting point and boiling points of cyclo alkanes are higher than their open chain analogues?



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Code No: 243AA

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Pharmacy II Year I Semester Examinations, December-2019

PHARMACEUTICAL ORGANIC CHEMISTRY -II

Time: 3 Hours

Max. Marks: 75

Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART - A

(25 Marks)

- 1.a) Illustrate the orbital picture of Benzene. [2]
b) Outline the structure and uses of DDT. [3]
c) Explain the qualitative tests, structure and uses of Cresols. [2]
d) Rephrase the method of separation of Amine mixture. [3]
e) Explain the following in detail (i) Drying of Oils. (ii) Hydrolysis. [2]
f) Find the principle and significance involved in the determination of Acid value. [3]
g) Outline the synthesis of phenanthrene. [2]
h) Rephrase the structure and medicinal uses of Diphenyl methane. [3]
i) Summarize the coulson and moffitt 's modification. [2]
j) Outline the Reactions of Cyclobutane. [3]

PART-B

(50 Marks)

- 2.a) Assess the Aromatic characters of benzene.
b) Explain the Sulphonation of Benzene reaction along with mechanism. [10]
OR
3.a) Elaborate the Friedel - Crafts alkylation of Benzene.
b) Explain why the Nitration of nitrobenzene yields only m-dinitro benzene. [10]
4. Interpret the acidity of phenols and the effect of substituents on acidity. [10]
OR
5. Defend the Basicity of Amines and the effect of substituents on Basicity. [10]
6.a) List out the types of fatty acids with examples.
b) Discuss the Rancidity of Oils. [10]
OR
7. Outline the significance and principle involved in the determination of
a) Saponification value
b) Acetyl value. [10]



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HUMAN ANATOMY AND PHYSIOLOGY-II B-PHARMACY 1ST YEAR I SEM QUESTION BANK

Unit – I Short answer Questions

1. Explain in detail about mitochondria.
2. Explain the structure of cell and its components
3. Explain the function of ribosomes
4. Short notes on connective tissue
5. Short notes on body fluids
6. Short notes on homeostasis
7. Short notes on classification of joints
8. Explain about various Types of joints and its movement
9. Physiology of muscle contraction
10. Short notes on gout
11. Explain about cell signaling.

Long answer Questions

1. Explain the structure of cell, its components and their functions
2. Differentiate between Epithelial, Connective, Muscular and Nervous tissues and their characteristics
3. Explain briefly about structure, composition and functions of skeletal systems
4. Explain about physiology of muscle contraction and properties of skeletal muscles

Unit – II

Short answer Questions

1. Explain structure and functions of the skin
2. Explain about functions of skeletal system.
3. Explain about axial skeleton.
4. Explain about appendicle skeleton.
5. Explain physiology of muscle contraction.
6. Explain neuromuscular junction.

Long answer Questions

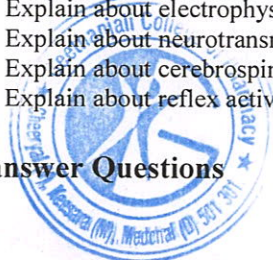
1. Explain structure and functions of skeletal system
2. Define joint and explain about types of joints.
3. Explain about organization of skeletal muscle
4. Explain structure and functions of skin.

Unit – III

Short answer Questions

1. Explain organization of nervous system.
2. Explain classification and properties of nerve fibre.
3. Explain about electrophysiology of nerve fibre.
4. Explain about neurotransmitter.
5. Explain about cerebrospinal fluid.
6. Explain about reflex activity.

Long answer Questions



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Code No: 232AE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Pharmacy I Year II Semester Examinations, May/June-2017

ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION – II

Time: 3 hours

Max.Marks:75

1. Explain about structure and functions of brain.
2. Explain about gross anatomy and physiology of CNS.
3. Explain about spinal cord.
4. Explain about classification of nervous system.

Unit – IV

Short answer Questions

1. Explain classification of peripheral nervous system.
2. Explain sympathetic nervous system.
3. Explain parasympathetic nervous system.
4. Explain about spinal nerves.

Long answer Questions

1. Explain about origin and functions of cranial nerves.
2. Explain about structure and functions of EYE.
3. Explain structure and functions of Ear.
4. Explain structure and functions of tongue.

Unit – V

Short answer Questions

1. Explain classification of hormones.
2. Explain mechanism of action of hormone action.
3. Explain about disorders of pituitary gland.
4. Explain about pincal gland.

Long answer Questions

1. Explain about structure and functions of pituitary gland.
2. Explain about structure and functions of thyroid gland.
3. Explain structure and functions of adrenal gland.



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Assignment on Thin layer chromatography (TLC)

By
Dr. P. Enosh
Pharm D 3rd year
18Z51T0018
Geethanjali College of pharmacy



Enosh P
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Imposition on
Snake Bite
Poisoning.

From,

P. Prashanth

Pharm - D 4th year

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CLINICAL RESEARCH ASSIGNMENT
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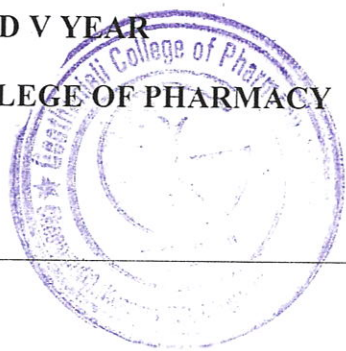
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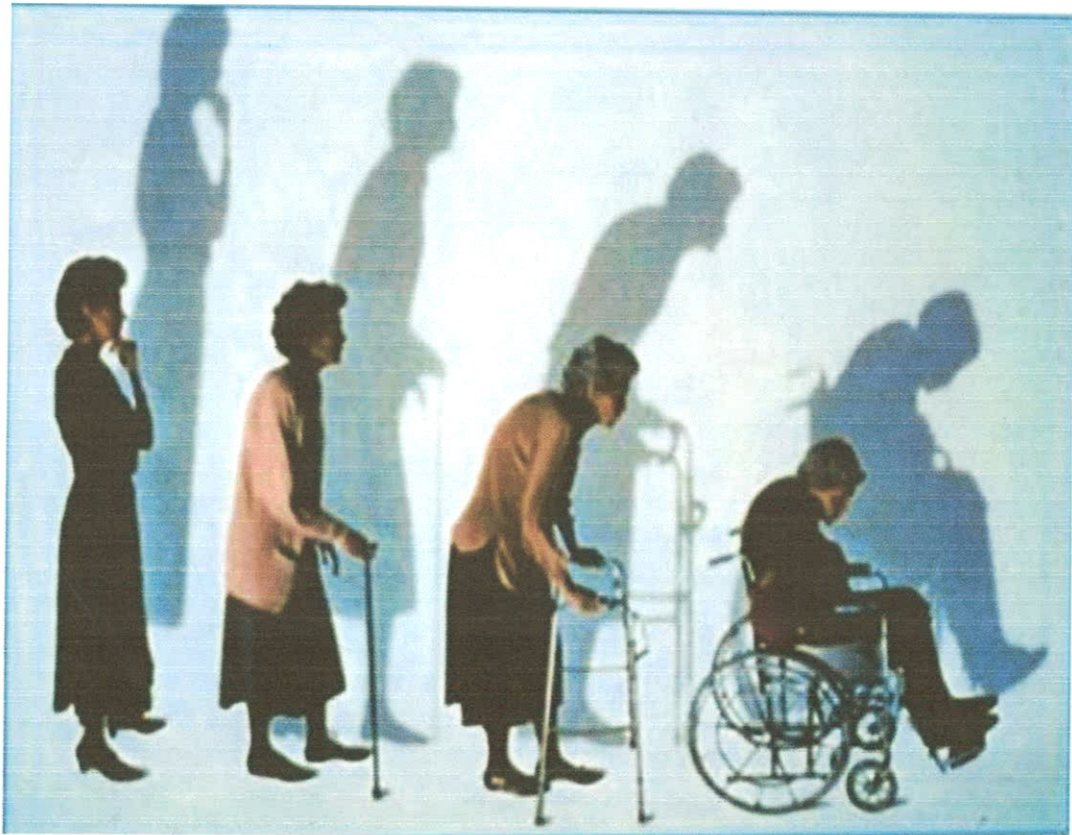
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ASSIGNMENT 1

TOPIC : OSTEOPOROSIS



By O.Nikitha

18z51t0017

Subject: Pharmacotherapeutics I

Pharm D II Year (2018-2024)

Geethanjali College Of Pharmacy



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19/2/2020



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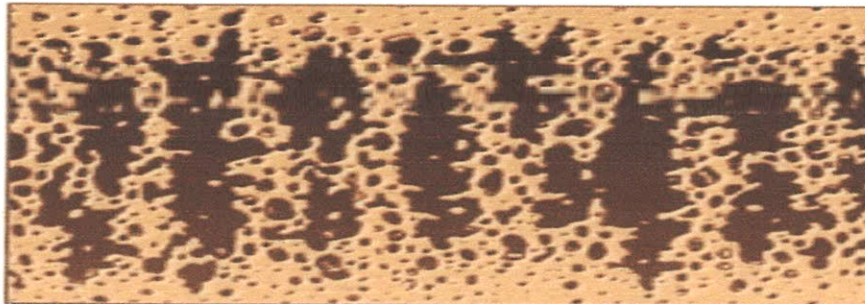
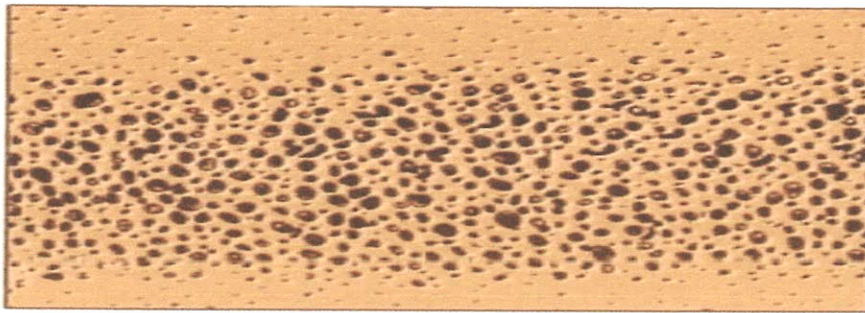
The term osteoporosis means 'porous bone'. This disease causes bones to become weak and brittle . It is called as a silent disease because you may have bone loss for many years without any symptoms until you break a bone . In this condition, T score (this compares your BMD to that of young normal adult of same gender) is at 2.5 or below.

Osteoporosis is more common than breast cancer and cervical cancer combined.

The bone mineral density can reduce for several reasons like not enough calcium in your food and menopause .

Osteoporosis is a multifactorial disease as it is caused due to many etiological factors.

Normal bone



Osteoporotic bone

Myths and facts about osteoporosis:

- ❖ Most people don't need to worry about osteoporosis.

In fact, about one in two women and up to one in four men over the age of 50 will break a bone due to osteoporosis.

Scale up of Hard gelatin Capsules:-

- The manufacturing process for encapsulated products of parallels that for tablets.
- Both tablets and capsules are produced from ingredients that may either be dry blended or wet granulated to produce a dry powder or granule mix with a uniformly dispersed active ingredient.
- To produce capsules, using modern high-speed equipment, the prepared powder blend must have the desired particle size distribution, bulk density, compressibility and flow characteristics.
- These parameters significantly govern the formation of compacts of right size and sufficient cohesiveness to be filled into the capsule shells.
- The following factors need to be considered during pilot plant evaluation of any encapsulation

- * Granule characteristics
- * Effect of lubricants
- * Encapsulation Equipment
- * Controlled Environment condition.

Granule characteristics :-

- The most common problem encountered during scale up of encapsulation process involves variation in bulk density, powder flow, compressibility and lubricant distribution.
- The poor flow characteristics of the granules may



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NDDS ST-4

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10

P. Madhuri

17251R0071

1) Method of Preparation of Nanoparticles.

good.

A) Definition - Submicrosized particles containing drug or bioactive molecules made up of synthetic or natural polymers having a size range of 1-100nm

Methods -

A) Amphiphilic Macromolecular Crosslinking

- Heat crosslinking
- Chemical crosslinking

B) Polymerization Methods

- Emulsion polymerization
- Dispersion polymerization
- Interfacial Condensation polymerization
- Interfacial Complexation

C) Polymer Precipitation Methods

- Solvent evaporation method
- Solvent displacement
- Salting out

Application -

- It is used in ocular drug delivery
- Can be applied in pulmonary drug delivery
- It is used in Targeting drug delivery
- Prevention and Cure of Cancer

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G. Srikant

m. pharmacy.

C.T

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Cheeryal (V), Keesara (M), Medchal Dist. T.S. 501301.



Scale up of capsules

A. Harikaishna

Hard gelatin capsules:-

- The manufacturing process for encapsulated product often parallels that for tablets.
- both tablets & capsules were produced that may either be dry-blended (a) to produce a powder (a) granule mix with a uniformly dispersed active ingredient.
- The manufacturing of capsules using modern high speed-blend mult have the following characteristics
- * desired particle size distribution
 - * bulk density
 - * compressibility & flow characteristics

These parameters significantly govern the formation of compacts of the right size & of sufficient cohesiveness to be filled into the capsule shells.

Granule characteristics:-

- The most common problem encountered during scale up of encapsulation process involves variation in bulk density, powder flow, compressibility and lubricant distribution.
- The poor flow of granules may cause weight variation in the filled capsules.
- The moisture content of granulation is also important as uncontrolled moisture may lead to flow problems and sticking during material transport and filling stages.
- Moisture content also tends to influence the chemical & physical stability of the finished product.



SCALE-UP OF HARD GELATIN CAPSULES

- The manufacturing process for encapsulated products often parallels that for tablets.
- Both tablets and capsules are produced from ingredients that may either be dry-blended or wet-granulated to produce a dry powder or granule mix with a uniformly dispersed active ingredient.
- Tablet dosage form to produce capsules using modern high-speed equipment.
- The processed powder blend must have the desired particle size distribution, bulk density, compressibility and flow characteristics.

Granule characteristics:-

- The most common problem encountered during scale-up of encapsulation process involves variation in bulk density, powder flow, compressibility and lubricant distribution.
- The poor flow characteristics of the granules may cause weight variation in the filled capsules, which in turn may be due to the altered bulk density or particle size distribution of the granules during scale-up trials.
- The moisture content of granulation is also important as uncontrolled moisture may lead to flow problems and sticking during material transfer and filling stages.

-> selection of encapsulation equipment is invariably governed by the properties of the powder blend viz. Particle size distribution.

Compressibility.

Flow behavior.

Controlled environment conditions:-

-> many encapsulation processes are less reliable than anticipated because temperature & humidity

-> Recommended storage conditions, temperature 8/10 15 to 25°C.

-> Relative humidity 8/10 35-65°C.

-> low humidity conditions make the capsule brittle & increase their static charge, thereby seriously interfering with the encapsulation operation.