i)Define Elixir with examples. j)Define Filtration with examples.

Post Preside Edwenting Association's

Seth Covind Raghanath Sable College of Pharmary (Paly), Sacrad, Dist. Pune.

SECOND SESSIONAL THEORY EXAMINATION 2022 22		
Class. Fire	Subject: Pharmacentics (2011) 1 Four D. Pharma 1 2074	Max. Markes 40 Time (4) Minutes
Instruction	na: 11 All questions are compulsory 2) Draw a neat labeled diagram wherever necessary 3) Black figures to the right indicate full marks	
a iF	empt any THREE of the following. Aplain principle construction, working & application of degram	ouble cone blender with suitable
ья	Describe Sugar Coating in details. Explain the principle of Soxhlation Explain the construction Define Ointment Describe various ointment bases used in	
a); b) c); d)	mpt any FIVE of the following. Explain hand operated capsule filling machine with the he limits Manufacturing defect of tablet describe any four de Differentiate between Wet granulation and Dry granulation Differentiate between Hard gelatin & Soft gelatin capsule What is creaming? discuss the various factor on which rate Define emulsifying agent, explain HLB scale for emulsify	n es. of creaming depends.
Q.3 After a) 1 i)(b) (i)(c) 1 i)l d)T	mpt ALL of the following. anolin is an example of which of the following ointment by Deoginous bases: ii) Absorption Bases: iii) Emulsion bases Dral Emusion are mostly	basesiv)Water soluble bases by we emusion iii)addition of PEG iv)All of the above irritation in the stomach is by the coating on and
f)D g)L	i)Solid Phase extraction ii)Leaching iii)Faithforming Police fine the term Mixing. Define Pastes with suitable example. Define Syrup with examples.	-

Roll No.	

Pune District Education Association's Seth Govind Raghunath Sable College of Pharmacy (Poly), Saswad, Dist.-Pune.

SECOND SESSIONAL THEORY EXAMINATION 2023-24

Subject: Pharmaceutical Chemistry (20112)

Class- First Year D. Pharm Date – 16/01/2024

Max. Marks- 40 Time- 90 Minutes

Instructions: - 1) All questions are compulsory.

- 2) Draw a structure wherever necessary.
- 3) Black figures to the right indicate full marks.

Q. 01 Solve any three of the following.

Marks 15

- a) Define and classify Antineoplastic agents? Draw structure of 5-Fluorouracil.
- b) Draw the structure of Phenytoin & give its chemical name, therapeutic uses, formulations, a stability storage condition & popular brand name.
- c) Define and classify Antibiotics giving suitable examples. Give structure & uses of Chloramphenicol.
- d) Define & classify Antihypertensive agents. Draw structure of Captopril, Give its chemical name, use & brand name.

Q. 02 Solve any five of the following.

Marks 15

- a) Define topical agents? Write uses & Pharmaceutical formulations of Boric acid & Bleaching powder.
- b) Draw structure & give chemical name, uses & brand name of Dapsone.
- c) State what are NSAID's? Give uses & popular brand names of Aspirin.
- d) Write uses and popular brand names of Piroxicam or Diclofenac sodium.
- e) Draw the structure of propranolol. Give its uses & popular brand name.
- f) Define gastrointestinal agents. Classify with examples.

Q. 03 Solve all of the following.

Marks 10

- a) Write any two uses of Azithromycin.
- b) IUPAC name of Paracetamol is-----
- c) Cardiac arrhythmia means disturbance in----
- d) Brand name of Acetyl salicylic acid is -----
- e) Captopril is used in treatment of -----
- f) Crocin ® is a popular brand name of -----
- g) State whether true or false for Antacids are meant for constipation & Hypoacidity.
- h) Select the drug from the following which acts as alkylating anticancer agents.
 - i)5-Fluorouracil
- ii) Cyclophosphamide
- iii) Doxorubicin
- iv) Vincristine

- i) Co-trimoxazole is a combination of-----
- j) The synonym of Calcium carbonate is ----

Insti	tute Code-0231 Pune District Education Asso	Roll No.
	Seth Govind Raghunath Sable College of Pharmacy SECOND SESSIONAL THEORY EXAM	(Poly), Saswad, DistPune.
	Subject: Pharmacognosy (20 Flass- First Year D.Pharm Pate- 17/01/2024	O113) Max.Marks- 40 Time-90 Minutes
Inst	ructions: - 1) All questions are compulsory. 2) Draw a neat labeled diagram wherever necessary. 3) Black figures to the right indicate full marks.	
0.1	Attempt any THREE of the following.	(15 Marks)
Q.1	a) Give principle in detail about Homeopathic system of medici	ne.
	b) Give Synonym, Biological Source, Chemical Constituents of	
	c) Define Antimalarial with examples. Give biological source, c	
	of any one drug use as antimalarial.	
	d) Define and classify volatile oil with example. Describe ext	raction processes of Volatile Oil.
Q.2	Attempt any FIVE of the following. a) Discuss quantitative test for Alkaloid in detail.	(15 Marks)
	b) Define herbal formulation, classify with suitable examples.	
	c) Differentiate between sutures and ligatures. Write ideal require	rements of sutures.
	d) What arr glycosides. Classify glycosides on the basis of linka	ge.
	e) Explain identification test for Black catechu.	
	f) Describe method of preparation of Bhasma & Leha.	
Q.3	Attempt ALL of the following. a) Define Gutika.	(10 Marks)
	b) Silk contains a protein known as	
	c)test is done for identification of Tropane alkal	
	i) Swelling factor, ii) Millions' test, iii) Vitali Morin Test,	iv) Catechine test
	d) Write families for which drug belongs: i) Hyoscymus, ii) M	Ayrobalan.
	e) Enlist different traditional systems of medicine.	
	f) Indian Bdellium Gum is synonym for; i) Myrrh, ii) Asafoet	ida, iii) Guggul, iv) Acacia
	g) Mention drugs belonging to families: i) Labiatae, ii) Liliac	ceae
	h) Write examples of: i) Plant Fiber, ii) Mineral Fiber	
	i) Terminalia tomentosa is adulterant of bark.	
	j) Ayurveda is derived from two Sanskrit words & _	·

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Pune District Education Association's Seth Govind Raghunath Sable College of Pharmacy (Poly), Saswad, Dist.-Pune

SECOND SESSIONAL THEORY EXAMINATION 2023-24

Date: - 18/1/2024	20114) Iaximum Marks: - 40 Fime: - 90 Minutes
Instructions: - 1. All questions are compulsory. 2. Illustrate your answers with neat sketches wherever 3. Black Figures to the right indicate full marks	er necessary.
 Q.1) Attempt any THREE of the following. (Long Answer Quesa) What is Portal circulation? Give its importance. Give events of b) Describe in detail Mechanism and Physiology of respiration. c) List out endocrine glands with their location. Give hormones swith their physiological role. d) Classify joints with examples. 	f cardiac cycle.
 Q.2) Attempt any FIVE of the following. (Short Answer Question) Distinguish between artery and vein. b) Enlist the functions of skin. How skin maintains our body temmer. c) Draw a well labeled diagram of an Ear d) Define Skeleton with its functions. e) Define with Volume- Tidal Volume and vital Capacity f) Draw a well labelled diagram of Respiratory system. 	•
Q.3) Solve the following multiple choice questions. a) is a leaf shaped cartilage in larynx.	(10 marks)
b)is an Exocrine as well as Endocrine gland.	• ,
c) Define Joint.	•
d) is the strongest and largest bone of our body.	
e) The ventricular walls have little muscle projections is known as-	 ·
f) Two lower chamber of Heart is called as	
g) Define Pneumonia.	v
h) Name the bones of vertebral column.	
i) Elbow joint is a type of	
j) The average breathing rate is breathes per minute.	

	Roll No.
Pune District Educ: Seth Govind Raghunath Sable College SECOND SESSIONAL THEOR	of Dhamas (D. t.) a
Subject: Social Pha Class- First Year D. Pharm Date – 19/01/2024	nrmacy (20115) Max.Marks- 40 Time- 90 Minutes
Instructions: - 1) All questions are compulsory. 2) Draw a neat labeled diagram wh 3) Black figures to the right indicat	erever necessary. e full marks.
Q. 01 Solve any three of the following.	Marks 15
 a) Enlist various respiratory infection. Give transmission, signs and symptoms, prevents b) What is fortification of food? Enlist with c) Write in detail about the disease: Acute of d) Define GMF. Write Advantages and disagraph. 	ntion and control of Rubeola. example types of food fortification. diarrheal disease.
Q. 02 Solve any five of the following.	Marks 15
a) Define the term epidemiologist .Enlist and b) Give causative agent, mode of transmission i) AIDS ii) Dengue c) Define the term i) Adulteration ii) M d) What is the role of pharmacist involved in e) Write classification of food. f) Write a note on food poisoning.	on, incubation period of : iii) Leprosy Malnutrition iii) Artificial ripening
Q. 03 Solve all of the following.	Marks 10
 a) Define the term nutraceutical. b) Whooping cough is also known as c) Kwashiorkor and Marasmus are deficien d) D.O.T.S stands for? e) What is gram negative and gram positive f) Write classification of Carbohydrate. g) Which of the following is not arthropod be i) Plague ii) Malaria iii) Syphilis iv) Filaria h) What is pandemic? i)Enlist any two ill effects of junk food. j) The causative agent of Chikungunya is 	borne disease.

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Inst. Code: - 0231

Roll	No.	

Pune District Education Association's Seth Govind Raghunath Sable College of Pharmacy (Poly), Saswad, Dist.-Pune.

Subject: Pharmacology (20221)	
Class- Second Tear B. Friann	ax.Marks- 40 me- 90 Minutes
Date - 15/01/2024 Ti	ine- 90 Minutes
Instructions: - 1) All questions are compulsory.	
2) Draw a neat labeled diagram wherever necessary.3) Black figures to the right indicate full marks.	
5) Black figures to the fight indicate full marks.	
Q. 01 Solve any three of the following.	Marks 15
a) Define and classify "Antihypertensive"	
b) What is anesthesia? Explain stages of mechanism of action of anesthesia	a.
c) Write a note on 'benzodiazepines as a hypnotics and sedatives.	
d) What is peptic ulcer? Define and classify antiulcer drugs with examples	•
Q. 02 Solve any five of the following.	Marks 15
a) Write a note on oral anticoagulants.	
b) Explain glyceryl trinitrate as an antianginal agent.	
c) Define and classify bronchodilators with examples.	
d) Give all pharmacological aspect Digitalis.	
e) Write a note on MAO inhibitors.	
f) Define and classify antiemetic's with examples.	
Q. 03 Solve all of the following.	Marks 10
a) is called as Largactil.	
b) What is haemophilia?	
c) Antiplatelet agents also knows as	
d) Glyceryl trinitrate isdrug.	
e) Define bronchial asthma.	
f) Give one example of synthetic narcotic analgesic.	
N. D. Landing in	
i) Mucolytic agents, ii) Anti-emetics, iii) Expectorants, iv) Antacids	
h) Define arrhythmia.	
i) Ranitidine & cimetidine are the	
j) PPIs means	

Institute Code-0231

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Roll	No.		

Pune District Education Association's Seth Govind Raghunath Sable College of Pharmacy (Poly), Saswad, Dist.-Punc. SECOND SESSIONAL THEORY EXAMINATION 2023-24

Subject: Community Pharmacy and Management (20222)

Class- Second Year D. Pharm

Max.Marks- 40

Date - 16/01/2024

Time- 90 Minutes

Instructions: - 1) All questions are compulsory.

- 2) Draw a neat labeled diagram wherever necessary.
- 3) Black figures to the right indicate full marks.

Q. 01 Solve any three of the following.

Marks 15

- a) Define Communication. Write a note on interaction with professionals.
- b) Enlist factors influencing non-adherence. Explain the role of pharmacist in medication non-adherence
- c) Explain the legal requirements to set up a retail pharmacy. Draw layout of Pharmacy.
- d) Explain EOQ analysis. Draw suitable diagram for CRM.

O. 02 Solve any five of the following.

Marks 15

- a) Explain types of medication non-adherence.
- b) Discuss any ten site selection requirements to establish community pharmacy.
- c) Draw and explain any two types of cash book.
- d) What are the consequences of non-compliance?
- e) Enlist and define the principles of communication.
- f) Give four advantages and four disadvantages of online pharmacy.

O. 03 Solve all of the following.

Marks 10

- a) Find the odd term from the following
- i) Communication ii) Counseling iii) Consulting iv) Contraindications
- b) Give the full form of FIFO and LIFO.
- c) What is Case presentation?
- d) What is medication adherence?
- e) Which of the following terms best explain the total cost required to hold the inventory
- i) Conversion cost ii) Carrying cost iii) Production cost iv) Purchase cost
- f) Define the term 'Vendor Audit.
- g) Write about any one EOQ analysis method.
- h) Which of the following is responsible for non-adherence
- i) Cultural attitudes ii) Polypharmacy iii) Refill failure iv) Pathological findings
- i) Define Non-Verbal communication.
- j) Which of the following is not an alternative (or synonym) of community pharmacy in India.
- ii) Retail Pharmacy iii) Chemist and Druggist iv) Internet Pharmacy i) Pharmacy

Pune District Education Association's Seth Govind Raghunath Sable College of Pharmacy (Poly.), Saswad, Dist. – Pune. SECOND SESSIONAL THEORY EXAMINATION 2023-24

Subject: Biochemistry & Clinical Pathology (BCT)	Subject (

Class- Second Year D.Pharm

Time- 90 Min

Subject Code-20223 Max. Marks- 40 Date- 17/01/2024

Instructions: - 1) All questions are compulsory.

- 2) Draw a neat labeled diagram wherever necessary.
- 3) Black figures to the right indicate full marks.

Q.01) Attempt any THREE of the following.

(15 Marks)

- a) Give details & schematic presentation of β -oxidation of fatty acid.
- b) Enlist factors affecting rate of enzyme catalyzed reaction. Explain in detail effect of Temperature pH & Concentration of enzyme with the help of curves.
- c) Give details & schematic presentation of Urea cycle.
- d) Define the following terms:
 - i) Acid value
- ii) Iodine value
- iii) Saponification value

- iv) Co-enzyme
- v) Inductive enzyme

Q.02) Attempt any FIVE of the following.

(15 Marks)

- a) Explain theories of enzyme mechanism of action with suitable diagram.
- b) Explain the secondary structure of protein with appropriate diagram.
- c) Define Biotechnology. Give its applications & drawbacks.
- d) Write the pharmaceutical applications of enzymes.
- e) Explain the role of lipids in biological membrane (Fluid mosaic model) with diagram.
- f) Draw structure of DNA & enumerate its functions.

Q.03) Attempt ALL of the following.

(10 Marks)

- a) Differentiate between Fats & oil.
- b) Write the components of Nucleotide.
- c) Draw structure of Cholesterol.
- d) Enlist the functions of RNA.
- e) What is Transamination?
- f) Enlist the deficiency diseases of protein.
- g) The general chemical test for amino acid is--
 - i) Molisch's test
- ii) Biuret test
- iii) Ninhydrin test
- iv) Fehling's test

- h) Define denaturation of proteins.
- i) Draw structure of Arachidonic acid.
- j) The following is the division of Biotechnology.
 - i) White
- ii) Green
- iii) Red

iv) All of the above

Institute code-0231 PUNE DISTRICT EDUCATION ASSOCIATION'S Seth Govind Raghunath Sable College of Pharmacy (Polytechnic), Sas SECOND SESSIONAL THEORY EXAMINATION 2023-24	oll No. wad, Pune
Subject: Pharmacotherapeutics (20224) Class:S.Y.D.Pharm. Date: - 18/01/2024 Instructions: - 1. All questions are compulsory. 2. Black Figures to the right indicate full marks	arks: - 40
Q.1) Solve any THREE of the following. (Long Answer Questions) a) Define Diabetes mellitus. Give the etiopathogensis, Clinical manifestations a Pharmacological and Non pharmacological treatment of Diabetes mellitus. b) What is Rheumatoid Arthritis? Give the etiopathogensis, Clinical manifestat Pharmacological and Non pharmacological treatment of Rheumatoid Arthritis c) Define stroke. Give the etiopathogensis, Clinical manifestations and Pharmacological and Non pharmacological treatment of stroke. d) What isPeptic ulcer? Give the etiopathogensis, Clinical manifestations and Pharmacological and Non pharmacological treatment of Peptic ulcer.	iona and
 Q.2) Solve any FIVE of the following. (Short Answer Questions) a) Write a note on hypothyroidism. b) What is osteoarthritis. Comment on etiopathogenessis of Osteoarthritis? c) Discuss the types of Epilepsy. d) What is GERD? Discuss its etiopathogenesis and risk factors. e) Explain various mechanisms of resistance to antimicrobial agent. f) Give clinical manifestations and Pharmacological treatment of Parkinson's of the control of the clinical manifestations. 	(15 marks)
 Q.3) Solve the following multiple choice questions. a) Define Alcoholic Liver Disease. b) Gestational diabetes occurs during c) Tonic Clonic seizure is known as d)infection is the common cause of peptic ulcers. e)is the Primary disease of cartilage. f) The another name of stroke is g) Ulcerative colitis & Crohn's disease are the types of h) Thyroid hormone regulate 	(10 marks)

i) Define Antimicrobial resistance.j) ----- is associated with overproduction of stomach acid.

Seth Govind Ragh SECOND	Pune District Education Association's nath Sable College of Pharmacy (Poly), Saswad, DistPune. SESSIONAL THEORY EXAMINATION 2023-24
Su Class- Second Year D.Pharm	oject: Hospital & Clinical Pharmacy (20225)
Date- 19/01/2024	Max.Marks- 40
Instructions: - 1) All questions	
2) Draw a neat	abeled diagram wherever necessary. to the right indicate full marks.
Q.1 Attempt any THREE of a) Discuss in detail about the flo	the following. 15 Marks or stock dispensing system, with its advantages & disadvantages.
	tion, Write the goal and procedure of WRP by clinical pharmacist.
	various sources of drug information with explanation.
•	escribe consequences and various types of IV admixture incompatibilities
Q.2 Attempt any FIVE of the a) Define drug related problems	G
b) Give Definition, content and	ndication for use of TPN.
c) Comment on Automated drug	dispensing systems.
d) What is pharmaceutical care,	lescribe its element.
e) Define radiopharmaceuticals,	Explain methods of radiopharmaceutical disposal.
f) Enlist different software's use	in pharmacy & explain pharmacy management software.
Q.3 Attempt ALL of the follow a) Define Bulk Compounding.	ng. 10 Marks
	ii) IM, iii) Subcutaneous, iv) Oral nich contains one complete pharmaceutical dosage form is v) All of above
	ypes. y used by health care professionals for effective and accurate edical Terminology, iii) Definition, iv) Phrase
f) What are is meanings of: i) Au	
	is mostly composed of
	Medium & low level, iv) Medium level ly stored: i) 2 ° C, ii) 8 ° C, iii) 25 ° C, iv) 0 ° C
n) Radiopharmaceuticals are usualn) What are functions of EHR.	19 Stored. 1/2 C, 11/0 C, 111/23 C, 14/0 C
) Define Patient Compliance.	

Pune District Education Association's Seth Govind Raghunath Sable College of Pharmacy (Poly),	Roll No. Saswad, DistPune.
SECOND SESSIONAL THEORY EXAMINATION 2023-24	
Subject: Pharmacy Law & Ethics (20226) Class- Second Year D. Pharm Date – 20/01/2024	Max. Marks- 40 Time- 90 Minutes
Instructions: - 1) All questions are compulsory. 2) Draw a neat labeled diagram wherever necessary. 3) Black figures to the right indicate full marks.	
Q. 01 Solve any three of the following.	Marks 15
 a) Discuss the qualification & Duties of Drug Inspector as per Drug Cosmetics act, 1940. b) Define illicit traffic. Write the Offences & penalties under Nard Psychotropic Substance act, 1985. c) Discuss the various functions of CDL as per Drugs & cosmeticed) What is biomedical Waste? Explain methods of disposal of biomedical Waste? 	cotic drugs & es act, 1940.
 Q. 02 Solve any five of the following. a) Discuss the qualification of Government analyst. b) Define Food Authority. Give the duties & functions of Food A c) State in detail provisions Schedule N of Drug & Cosmetics rule d) Discuss certain operations controlled by the Central Government 1985 e) What are the functions of National Council for Clinical Establish Define the term under D & C act, 1940 i) Adulterated Drug ii) 	es 1945. ent, under NDPS act, shment?
Q. 03 Solve all of the following.	Marks 10
 a) FSSAI stands for b) Indian Veterinary Research Institute is situated at c) The main objectives of the consumer organization is to protect i) Consumer ii) trader iii) Producer iv d) Define Drug Store. e) Out of 22 members of the Food Authority, the proportion of very first organization in the proportion of very first organization. g) Head office of Food Authority is at? i) Chennai ii) Mumba h)is the highest authority to settle to consumer dispute under i) Animal anatomical waste are categorized under which category j) Lung Ventilators are classified under which class of medical of i) Class B ii) Class A iii) Class C iv) Class D 	women is i iii) Dehradun iv) Delhi ler act. ry of biomedical waste.
XXXXX	-