Registration No :

Total Number of Pages : 01

B.Pharma 15PH306

(2 x 10)

(16)

3rd Semester Back Examination 2019-20 ENVIRONMENTAL SCIENCE BRANCH : B.PHARMA Max Marks : 100 Time : 3 Hours

Q.CODE : HB810 Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and any TWO

from Part-III.

The figures in the right hand margin indicate marks.

Part-I

- Q1 Only Short Answer Type Questions (Answer All-10)
 - a) What do you mean by "RO"?
 - b) Differentiate between food chain and food web?
 - c) Distinguish between BOD and COD.
 - d) What are Coagulants? Write the name of Three.
 - e) What are non-criteria pollutants? Give Examples.
 - f) What are the waste minimization techniques?
 - g) What are biomedical wastes? Write down some examples.
 - h) Distinguish between Paralysis and Combustion.
 - i) Define 'Life cycle assessment'.
 - j) Write the name of different kind of Indian soils.

Part-II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)

- a) What are the Physical and chemical factors of an Ecosystem?
- b) Classify and explain about generation of different Hazardous wastes?
- c) Write in short about Anaerobic digestion.
- d) Classify the waste reduction techniques with suitable examples.
- e) What are the benefits of a waste minimization Programme?
- f) Write down the Physical properties of sound?
- g) What is MSW? Write down the collection and storage process of MSW.
- h) Describe different methods of noise and outline various noise control Methods.
- i) Write notes on Energy flow in an Ecosystem?
- j) Explain about the control measures of Soil Pollution.
- k) What are the steps to be taken for" life cycle "Assessment?
- I) List the factors that reduce the amount of direct ran off.

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

- Q3 Discuss in detail about the aim and objective of Environmental Impact Assessment (16) (EIA). Explain the different phases of EIA.
- Q4 Explain about ground water contamination, its investigation and pollution prevention. (16)
- Q5 Define ecosystem and describe its components with suitable examples. (16)
- **Q6** Describe the various stages involved in MSW management.

Registration No :															
Total Number of Pages : 01 B.Pharma															
PH.3.10 3 rd Semester Back Examination 2019-20 ENVIRONMENTAL SCIENCE BRANCH : B.Pharma Time : 3 Hours Max Marks : 70 Q.CODE : HB811 Answer Question No.1 which is compulsory and any FIVE from the rest. The figures in the right hand margin indicate marks.															
Q1	a) b) d) e) f) h) i) j)	Answer the f What is field (What is Hydro What is Hydro What is waste What is B.O.D What is Energ What is Energ What are the Differentiate to Define Ecolog State the phys	Capac blogica -criter wate ?? gy Buc limitat petwee gy?	sity? al Cyo ia Po er trea dget? tions en foo	cle? Illutan atmen of Eco od cha	ts? G t? ologic ain ar	ive E al py nd foo	ramid	s?						(2 x 10)
Q2	a) b)	What are Crite Explain Carb							•		itable	exan	ıple.		(5) (5)
Q3	a) b)	Write the diffe Describe the o								ıre?					(5) (5)
Q4	a) b)	Write notes or Name the fur		•	-										(5) (5)
Q5	a) b)	Explain about Describe abo				Ozon	e De	pletio	n.						(5) (5)
Q6		What is waste treatment.	wate	er trea	atmen	t? Ex	plain	about	the o	differe	ent ste	eps of	waste	water	(10)
Q7		What is the n of noise Pollu		Pollut	ion? I	Descr	ibe in	deta	il abc	out no	ise C	riteria	and C	Control	(10)
Q8	a) b) c) d)	Write short N Write short no Write short no What is Globa Write notes on	otes or otes or al warr	n Car n Me mingʻ	bon c dical l ?	ycle. nazar	dous	waste	es.						(5 x 2)

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B.Pharm 15PH303

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3rd Semester Back Examination 2019-20 ORGANIC CHEMISTRY-II BRANCH : B.Pharma Max Marks : 100 Time : 3 Hours Q.CODE : HB877

Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and any TWO from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Only Short Answer Type Questions (Answer All-10)

a) What is Metamerism.

Q1

- **b)** State the use of Aluminium tert-butoxide.
- c) What is Specific rotation?
- d) What is Huckel's rule of aromaticity?
- e) State the use of Aluminium tert-butoxide.
- **f)** What is Relative configuration ?
- g) Write about Asymmetric carbon.
- h) Write the structure of Furan& Pyrrole.
- i) What is Internal compensation.
- j) What is Lithium Aluminium Hydride?

Part-II

- Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)
 - a) Explain why phenol acidity of phenol.
 - b) Walden inversion.
 - c) Stereoselective and stereospecific reactions.
 - d) Friedel crafts alkylation reaction.
 - e) Discuss the preparation & Application of Diazomethane.
 - f) Explain CIP Rule.
 - g) Discuss General Method of Preparation of Phenol.
 - h) Illustrate Keto-Enol tautomerism with suitable example.
 - i) Write a short note on Geometrical Isomerism.
 - j) Explain Reimer-Tiemann Reaction?
 - **k**) Write a short note on N-Bromo-succinimide.
 - I) Explain Enantiomerism & Diastereoisomerism.

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

- Q3 Discuss the general method of preparation & Reaction of indole. Describe the chemical (16) properties of Indole.
- Q4 What is Racemic mixture? Explain the different method of Resolution of racemic (16) mixture.
- Q5 Discuss the Preparation and chemical reactions of anthracene. (16)
- Q6 Write the general method of preparation & Chemical reaction of Benzene. (16)

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Tota	Total Number of Pages : 01 3 rd Semester Back Examination 2019-20 PATHOPHYSIOLOGY OF COMMON DISEASES BRANCH : B.Pharma Time : 3 Hours Max Marks : 70 Q.CODE : HB750 Answer Question No.1 which is compulsory and any FIVE from the rest. The figures in the right hand margin indicate marks.											
Q1	a) b) c) d) e) f) h) i) j)	Answer the following que What are signs of Inflamm Differentiate between Dep Write about Parkinson's di Write about Bronchial asth What is Thalasemia? Write about Hemophilia. What is acute renal failure What are cellular events o What are cellular adaptation What is feedback system?	ation? ression and N sease. ma. ? f Inflammatior ons?						(2 x 10)			
Q2	a) b)	Explain Congestive heart f Explain Myocardial infarcti				••		enesis.	(5) (5)			
Q3	a) b)	Explain Diabetes mellitus What is Rheumatoid arthri				•••	•	•	(5) (5)			
Q4	a) b)	Explain Viral hepatitis. Wri Explain Anemia. Write abo					es.		(5) (5)			
Q5	a) b)	What is an ulcer? Write a Write a Write a note on Chronic in							(5) (5)			
Q6		What is cell injury? Disc reversible cell injury.	cuss the caus	ses of	cell inj	ury an	d write	a note o	on (10)			
Q7		Define diabetes mellitus. A and complications of the d		on its cl	lassifica	ation, ca	auses, p	orogressio	on (10)			
Q8	a) b) c)	Write short Notes on any Classification, etiology and Atherosclerosis STD and AIDS		s of Ca	ncer				(5 x 2)			

Registration No :															
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PH.3.1 3 rd Semester Back Examination 2019-20 PHARMACEUTICS - II BRANCH : B.Pharma Max Marks : 70 Time : 3 Hours Q.CODE : HB520 Answer Question No.1 which is compulsory and any FIVE from the rest. The figures in the right hand margin indicate marks.															
Q1	 Answer the following questions : a) What are liquid crystals b) What is BET adsorption isotherm? Write its significance c) Isotonicity must be maintained incase of ophthalmic and parenteral preparation. True / False. Justify d) How polymorphs influence pharmaceutical dosage form development explain. e) Define and differentiate between sublimation and deposition. Give examples of any two agents exhibiting sublimation f) What do you mean by buffer capacity, write the equation to determine it g) What are surface active agents give example of any two of them h) Define eutectic mixture. i) Write down the equation of Henderson- Hasselbalch equation j) Write any two applications of complexation in pharmacy 														
Q2	a) b)											(5) f (5)			
Q3	a) b)	Write short not Differentiate be					•				kinet	ic the	ory of	fgases	(5) 5 (5)
Q4	a) b)	Write note on p What do you m for developmer	ean b	y HL	B. An	alyze			selec	tion o	fsurf	ace a	active	agents	(5) 6 (5)
Q5	a) b)	Write note on I Derive the equ						inetic	s						(5) (5)
Q6		Write the principle involved in second law of thermodynamics. Derive equation (10) for the efficiency of heat engine with suitable example.										n (10)			
Q7		What is CMC containing liqui	-				-					-		-	n (10)
Q8	a) b) c)	b) Buffered isotonic system										(5 x 2)			

Registration No:

Total Number of Pages : 01

3rd Semester Back Examination 2019-20 PHARMACOGNOSY-II BRANCH : B.PHARMA Max Marks : 100 Time : 3 Hours Q.CODE : HB670

Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and any TWO from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Only Short Answer Type Questions (Answer All-10)

- a) What is the biological source of Fennel?
- b) Define Pharmaceutical aids.
- c) Write the chemical constituents of Musk.
- d) Write two uses of Valerian.
- e) What are the chemical constituents of Momordica?
- f) What are the uses of Garlic?
- g) State the biological source of Cardamom.
- h) Write the chemical constituents of Sandal wood.
- i) State the important properties of Volatile oil.
- **j)** Write the biological source of Turmeric.

Part-II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)

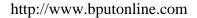
- a) Describe Photosensitizing agent with examples.
- b) Write the application of Plant Biotechnology in Pharmacy and allied fields.
- c) What are the Source, Chemical constituents and Uses of Cotton and Wool?
- d) State the classification of Fibres with examples.
- e) Write the Biological source, Chemical constituents and Uses of Ginkgo biloba.
- f) Write the classification of Volatile oil with example.
- **g)** Write notes on Annatto.
- h) Describe in details about general methods of extraction of Volatile oil.
- i) Write the Biological source, Chemical constituents and Uses of Citronella.
- j) What are the Source, Chemical constituents and Uses of Mentha and Dill?
- k) Explain different types of antioxidant with suitable examples.
- I) Write the Biological source, Chemical constituents and Uses of Clove.

Part-III

Q3	Enumerate the historical prospects and development of Plant Biotechnology.	(16)
Q4	Describe the detail and systematic Pharmacognostic study of Cinnamon.	(16)
Q5	Write the Source, Chemical constituents and Uses of Gelatin and Diatomite.	(16)
Q6	What are the different types of natural allergen? Describe in details with suitable example.	(16)

B.Pharm 15PH304

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Total Number of Pages : 01

3rd Semester Back Examination 2019-20 PHYSICAL PHARMACEUTICS-I BRANCH : B.Pharma Max Marks : 100 Time : 3 Hours Q.CODE : HB518

Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and any TWO from Part-III.

The figures in the right hand margin indicate marks.

Part- I

Only Short Answer Type Questions (Answer All-10)

- a) Define solubility and solubility product
- b) Isotonicity must be maintained for infusion fluids. Justify
- c) State the meaning of the terms HLB and CMC
- d) How amorphous solids influence bioavailability explain
- e) Describe the term phase rule
- f) Why do crystals demonstrate X ray diffraction comment
- g) What do you mean by buffer capacity and buffer action
- h) Differentiate between crystals and liquid crystals
- i) What is zeta potential? Mention its significance
- **j)** State about enthalpy of a system.

Part- II

- Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)
 - a) Discuss about complexation and its application in pharmacy
 - b) Explain phase rule along with derivation
 - c) Describe the methods for preparation of Isotonic Solution
 - d) Distinguish between upper and lower consulate temperature with reference to phenol water system
 - e) Illustrate with example buffer action with respect to weak acid and weak base
 - f) Derive Langmuir adsorption Isotherm
 - g) Write note on determination of surface tension by capillary rise method
 - **h**) Write note on colligative properties
 - i) Application of adsorbents in pharmacy
 - **j)** Write note about electrical double layer when drug is dispersed in liquid medium with help of diagram.
 - **k)** What are surface active agents classify them based on HLB scale. Also attach a note on their application in pharmacy
 - I) What do you mean by mesophase explain with suitable examples

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

- Q3 Describe the methods by which stability test can be conducted for formulated finished (16) products
- Q4 Derive protein binding equation and also write about the factors that are affected by (16) protein binding
- Q5 Write note on the factors that influence solubility of active agents (16)
- **Q6** State BET equation and explain its application in Pharmacy

B.Pharm

15PH301

(2 x 10)

(16)