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Ans	a) b)	Question Only Short What do yo Differentiate	The Answ u mea e betw	(Par figur ver T an by veen f	t-1) vres i ype ( "RO"	ENVI BI whic n the Ques	Tir Q.C h is fr e righ	MENCH:  K Ma  THE COME  COME  THE CO	ITAL B.PH rks: 3 Ho : : HE pulse Part- and n art-l swer	SCII IARN 100 urs 8810 ory, a II. nargi	ENC MA any l	E EIGH	IT fro			t-II a	nd aı	15PH306 ny TWO (2 x 10)
	c) d) e) f) g) h) i)	Distinguish between BOD and COD. What are Coagulants? Write the name of Three. What are non-criteria pollutants? Give Examples. What are the waste minimization techniques? What are biomedical wastes? Write down some examples. Distinguish between Paralysis and Combustion. Define 'Life cycle assessment'. Write the name of different kind of Indian soils.																
Q2	a) b) c) d) e) f) h) i) k)	Only Focus What are th Classify and Write in sho Classify the What are th Write down What is MS Describe di Write notes Explain abo What are th List the fact	e Phyd explort above waste ben the PW? W fferent on Erbut the step	sical ain about Are reduced fits of hysic frite of the method from the controls to leave the controls to leave from the controls the control the controls the controls the controls the control the controls the control the control the controls the control the controls the control the controls the control the control the controls the control the control the controls the control the control the control the controls the control	and operation and the control of a value of	chem gene bic d n tecl waste operti the o of no in ar easu ken f	nical faration ligestinique minimi e minimi ies of collect bise a n Ecos res of or" life	Ques actors of di on. es wi mizat soun tion a nd ou system f Soil e cycle	s of a fferer th sui ion P id? nd sto utline m? Pollu le "As	n Éco at Haza table rogra orage variou tion. sessi	exar exar mme produs no	em? ous wanneles en en e	astes .	s? SW.			elve)	(6 x 8)
Q3		Only Long Discuss in (EIA). Expla	detail	abo	ut the	e aim	n and	(Ans		_				•	act A	sses	smen	nt <b>(16)</b>
Q4		Explain abo	ut gro	ound v	watei	cont	tamin	ation,	, its ir	vesti	gatio	n and	l pollu	utio	n pre	venti	ion.	(16)
Q5		Define ecos	system	n and	desc	cribe	its co	mpor	nents	with s	suital	ole ex	amp	les.				(16)
Q6		Describe th	e vario	ous s	tages	s invo	olved	in MS	W m	anag	emer	nt.						(16)

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B.Pharma PH.3.10

## 3<sup>rd</sup> 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.

		The figures in the right hand margin indicate marks.	
Q1	a) b) c) d) e) f) g) h) i)	Answer the following questions: What is field Capacity? What is Hydrological Cycle? What are non-criteria Pollutants? Give Examples. What is waste water treatment? What is B.O.D? What is Energy Budget? What are the limitations of Ecological pyramids? Differentiate between food chain and food web? Define Ecology? State the physical properties of sound?	(2 x 10)
Q2	a) b)	What are Criteria Pollutants? Describe about any two suitable example. Explain Carbon Cycle using a neat labelled Diagram.	(5) (5)
Q3	a) b)	Write the different sources of water contamination.  Describe the different water pollution control measure?	(5) (5)
Q4	a) b)	Write notes on Ecological Pyramids? Name the functions of Ecosystem?	(5) (5)
Q5	a) b)	Explain about Acid rain? Describe about the causes of Ozone Depletion.	(5) (5)
Q6		What is waste water treatment? Explain about the different steps of waste water treatment.	(10)
Q7		What is the noise Pollution? Describe in detail about noise Criteria and Control of noise Pollution.	(10)
Q8	a) b) c) d)	Write short Notes on any TWO: Write short notes on Carbon cycle. Write short notes on Medical hazardous wastes. What is Global warming? Write notes on green house effect.	(5 x 2)

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Q3		Only Long A Discuss the opproperties of	gener	al m				(Ans							the ch	emica	ıl <b>(16)</b>
Q4		What is Ramixture.	cemic	c mix	kture'	? Ex	plain	the	differ	ent n	netho	d of	Res	olution	of ra	acemic	(16)
Q5		Discuss the	Prepa	aratio	n an	d che	mica	l reac	tions	of ar	nthrac	ene.					(16)
Q6		Write the ger	neral	meth	od o	f prep	oarati	on &	Chen	nical	reacti	ion of	Benz	zene.			(16)

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An	ıswe	3 <sup>rd</sup> Semester Back Examination 2019-20 PATHOPHYSIOLOGY OF COMMON DISEASES BRANCH: B.PHARMA Max Marks: 100 Time: 3 Hours Q.CODE: HB748 er Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and any from Part-III.	TWO
		The figures in the right hand margin indicate marks.	
		Part-I	
Q1	a) b) c) d) e) f) g) h) i)	Only Short Answer Type Questions (Answer All-10) Define adaptation. Differentiate between acute and chronic inflammation. What is Jaundice? What are the signs of Inflammation? What is the causative agent of AIDS? What are clinical features of Gout? Differentiate between primary and secondary hypertension. Write about feedback system in body. What do you mean by Homeostasis? How do the wounds heal in body?	(2 x 10)
		Part-II	
Q2	a) b) c) d) e) f) g) h) i) k) l)	Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) Write a note on Rheumatoid arthritis Write a note on Peptic ulcer What are mediators of Inflammation? Describe Anemia and role of Iron in Anemia. Write a note on Viral hepatitis. Write a note on Epilepsy. Write a note on Angina pectoris and myocardial infarction. Write a note on acute inflammation. Write a note on Bronchial asthma. Write a note on acute renal failure. Write a note on Urinary tract infection. Write a note on Tuberculosis.	(6 x 8)
		Part-III	
Q3		Only Long Answer Type Questions (Answer Any Two out of Four) What do you understand by STD? Write a note on their cause and clinical features of Gonorrhea and Syphilis.	(16)
Q4		What is Congestive heart failure? Write about the etiology, pathogenesis, symptoms and complications of the disease.	(16)

Define diabetes mellitus. Write a note on its classification, causes, progression and complications of the disease.

What is cell injury? Discuss the causes of cell injury and write a note on reversible cell

injury.

Q5

Q6

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Q3	a) b)	Explain Diabe What is Rheu												esis.	(5) (5)
Q4	a) b)	Explain Viral Explain Anen	•				•	•			atures	S.			(5) (5)
Q5	a) b)	What is an ul													(5) (5)
Q6		What is cell reversible cel			scuss	the	caus	es of	cell	injur	y and	d write	e a no	ote on	(10)
Q7		Define diabet					ote o	n its	classi	ficatio	on, ca	uses	progre	ession	(10)
Q8	a) b) c)	Write short I Classification Atheroscleros STD and AID	, etiolo sis				enesis	s of C	ancer						(5 x 2)

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Aı	nswe	3 <sup>rd</sup> Semester Regular/Back Examination 2019-20 PHARMACEUTICAL ENGINEERING BRANCH : B.Pharma Max Marks: 75 Time : 3 Hours Q.CODE : HBR749 er Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any TV Part-C. The figures in the right hand margin indicate marks.	
Q1	a) b) c) d) e) f) g) h) i)	Part-A Only Short Answer Type Questions (Answer All-10) What is Reynolds Number? Show how it is dimensionless group. Explain why the value of $C_v$ is more than $C_o$ in fluid flow. Define Black Body and Grey Body. Explain Stefan-Boltzmann law of thermal radiation. What do you mean by economy of multiple effect evaporator? Why molecular distillation is also called short path distillation? How EMC is measured? Define convective mixing. Write on the principle of Supercentrifuge. Differentiate between simple distillation and fractional distillation.	(2 x 10
Q2	a) b) c) d) e) f) g) h)	Part-B Only Focused-Short Answer Type Questions- (Answer Any SEVEN out of NINE) Describe the different laws governing size reduction. Explain the size separation by elutriation tank. Distinguish between Orifice Meter and Venturi Meter. Write on the theories of corrosion. What are the applications of centrifugation? Derive overall heat transfer coefficient from individual coefficients in forced convection Describe the advantages and disadvantages of Plate and Frame filter press. Explain with the help of a diagram the construction and working of a ball mill. What are the parameters which should be maintained in primary drying step i.e. sublimation of ice under vacuum in freeze drying.	n.
Q3		Part-C Only Long Answer Type Questions (Answer Any TWO out of FOUR) Describe principle, construction, working, advantages and disadvantages of Silverson Mixer Emulsifier	of <b>(10)</b>
Q4		Derive Bernoulli's equation and what are the application of Bernoulli's theorem.	(10)
Q5		Explain the factors affecting during materials selected for Pharmaceutica plant construction.	al <b>(10)</b>
Q6		With a labeled sketch, explain the principle, construction, working, advantages and disadvantages of Fluidised Bed Dryer.	nd (10)

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Q1	a) b) c) d) e) f) g) h) i)	Part-A Only Short Answer Type Questions (Answer All-10) Differentiate prokaryotes and eukaryotes. Why for streak plate method is carried out? Write the composition of nutrient agar. Draw a suitable design for construction of aseptic area. Define preservatives with few examples. Differentiate disinfectants and antiseptics. What is germ theory of disease? Write four different factors influencing disinfectant action. What do you know about HEPA? Name four different methods for quantitative measurement of bacterial growth.	(2 x 10)
Q2	a) b) c) d) e) f) g) h)	Part-B Only Focused-Short Answer Type Questions- (Answer Any SEVEN out of NINE) Discuss briefly on the followings: Phenol coefficient test Growth pattern of bacteria with growth curve Isolation methods for pure cultures Gram's staining Animal cell culture Sterility indicators IMViC tests Replication of virus Classification of fungi	(7 x 5)
Q3		Part-C Only Long Answer Type Questions (Answer Any TWO out of FOUR) Describe the structure of bacteria with help of a labeled diagram.	(10)
Q4		What is sterilization? Discuss in detail physical methods of sterilization.	(10)
Q5		Discuss microbial assay of antibiotics.	(10)
Q6		What do you mean by microbial spoilage? Write different sources of microbial contaminants.	(10)