ODISHA STATE BOARD OF PHARMACY D. PHARM-LEX AMENATION 2021(i)

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SUBJECT - PHARMACEUTICS-1 (FHEORY)

Foll.	Marks -	-80		F	Tim	e: 3hrs	
	HAIKS		(Answer any five	questions including que	stion No1)		
	1	A)	Fill in the blanks:			(1x10)	
			i) The inert soluble in	naterial remains after extra	ection is called		
				of Indian Pharmacopoeia			
			year .				
				sed base in the preparation	of a throat paint is	+	
				on is prope			
				tablets are meant to be di			
				er is made from		22	
				helps to increase the			
		3		n is used for separation o		8 0	
			ix) A solution conta	ining 0.9% soditim chloric	de is with blo	od plasma.	
	190		x) In the sieving method, the powder is pass through a set of sieves which are				
	2		arranged in				
		B)	Difference between t		N. Mainelle	(2X4)	
			i) Exotoxin & Endot		31.5		
			ii) Size reduction &				
			iii) Emulsion & Susp				
			iv Infusion & Deco-	ction			
		C)	Find the volume of 8	30% alcohol required to p	repare	(02)	
			400ml of 50% alcoh	ol.			
2,	Defi	ne Caps	sules, types of Capsules	. Discuss construction, we	orking of hand opera	ited capsule	
-	filling machine.					(2+1+12)	
3.	Defi	Define Extraction? What are different processes of extraction? Describe the pr					
			used in the preparation			(3±2±10)	
4,				ecount on hot air oven wi	th its advantages & disad	lvantages.	
8						(2+13)	
5.	Defi	ne & cl	assify immunity. Write	notes on manufacturing of	of Toxoids & BCG vaccin	ne. (2+3+5+5)	
6.	Wha	it is dry	ing? Explain detail abo	ut Fluidized Bed dryer wi	th its merits & demerits?	(2+13)	
7.	Writ	te short	notes on any two of the	followings.		(7½ x 2)	
			Veent		iii) Aerosol Packa	ging ·	

ODISHA STATE BOARD OF PHARMACA D. PHARM-LLXAMINATION 2021(i)

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SUBJECT: HEALTH ELCATION A	ND COMMUNITY PHARMAC	Y (THEORY)
FULL MARKS-80		TIME- 3 hrs.
. (Answer any five pues	tions including Question No. 1	γ
1. (A) Define the following:	Month in Manual Comment	(2x5)
i) Chlorine demand ii) Hypertension v) Sewage	iii) Immunization Schedule	iv) Balanced Diet
(B) Expand the following abbreviations:		(1x10)
i) ESR' ii) CSF iii) PEM viii)DDT ix) ECG x) ORS	iv) LUCD v) BBT	vi) BCG vii) MTP
(2. (A) Briefly discuss the various staining	technique for bacteria; mentio	ning merits and demerits
of each.	žilin.	(9)
(B) Draw a neat diagram of a typical bact	terial cell.	(6)
3. What are vitamins? Classify them and write	A STATE OF THE PARTY OF THE PAR	ly requirements of fat
soluble vitamins.		(3+12)
4. Define demography. Discuss the stages in	demographic cycle and ment	ion the method of family
planning.		(2+3+10)
5. Write the objective and principle of first ai	id. Discuss in detail the first ai	d for snake bite, burn and
poisoning.		(3+4+4+4)
6. Write short notes on: a) Marasmus		(5x3)
b) Epidemiology		ha ^{r-}
c) Sanitary well		
- 7. What is disinfection and what are its types?	Give disinfection procedure for	or
a) Faeces b) Sputum c) Room	d) Dead bodies	(2+5+8)

ODISHA STATE BOARD OF PHARMACY D. PHARM-I EXAMINATION 2021(i)

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SUBJECT: PHARMACEUTICAL CHEMISTRY-I (THEORY)

FULL MARKS-80

important antimicrobial agents.

TIME-3 brs.

(Answer any five questions including Question No. 1) (1x10) (A) Write the chemical formula of the following: (v) Quick silver (iii) Epsom salt (iv) Soap stone (ii) Borax (i) Spirit of salt (x) Slaked lime (ix) Alum (vii) Green vitriol (viii) Rochelle Salt (vi) Butter of zinc (2×5) (B) Define the following terms: (i) Expectorants & Bronchodilators (ii) Antiseptics & Disinfectants (iii) Electrolytes & ORS (v) Hygroscopic & Deliquescent (iv) pH & Ka 2. Explain Lewis-Acid Base theory and Bronsted-Lowry acid base theory with examples. Write the application of buffer. Write the physical, chemical properties, storage condition and uses of Boric Acid (5+2+4+4)and Sodium Hydroxide. (5 x 3) 3. Write short notes on (any Three) (iii) Test for purity (ii) Official preparations of Iodine (i) Dental Products (v) Combination of Antacids (iv) Saline catharties (a) What are antioxidants? Classify with suitable examples. Write physical and chemical 4. properties, uses, storage and incompatibility of sodium thiosulphate? (2+2+4)(b) Define & classify antidotes basing on their mechanism of action and explain the action (3+4)of Sodium Nitrite as an antidote in cyanide poisoning. 5. (a) What do you mean by Limit Test? Write the principles and procedures, reactions of Limit Test (10)of Arsenic with neat labeled diagram. (5)(b) Write a brief note on respiratory stimulants. 6. (a) Define Radiopharmaceutical. Explain about the detection & measurement of radioactivity by (1+8)G.M. counter. (6) (b) Briefly describe about Radio opaque contrast media. 7. What do you mean by Topical agent? Classify them with suitable examples. Write the chemical formula, synonyms, physical, chemical properties and uses of any three

ODISHA STATE BOARD OF PHARMACY D. PHARM-LEXAMINATION 2021(i)

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	k)	SUBJECT:	PHARMACO	GNOSY (T	HEORY)		
FULL M	ARKS-80			1.7		9	TIME- 3 hrs
	. (.	Answer any fiv	e questions in	cluding Qu	estion No. 1)	
	ite the biological s Rakta Chandan	source and use: (ii) Loban	of the follow		winkle	(v) Adhtoda	(2x10)
0.3000) Chhotachand		weed (viii)				
2. Do	efine erude drugs.	Classify them.	Discuss abou	t chemical	and pharma	cological class	sification of
1.4	de drugs.		1				(2+3+4+6)
, 3. De	efine fiber. Classit	y them with s	uitable examp	le. Write b	iological sor	rce, chemical	constituent
and	t uses along with p	oreparation of a	plant fiber.	Abiron			(15)
4. Wr	ite notes on any F	ive.	4.5 0.5				(3x5)
a) N	fodified Borntrage	er's fest	b) Keller-kil	iani test c) Goldbeater	's skin test	
d) SI	ninoda test	e) Livermann	burchard test	f) Mayer	's test and D	ragendorff's t	est
		AL SHIP TO SH					Vest NY
5. Wri	te notes on any tw	°O.		- South			$(7\frac{1}{2} \times 2)$
- a) Se	econdary metaboli .	tes b) Ad	ulteration	e) Pharn	naceutical Ai	ds	
6. Do	efine diuretics. Cla	assify them wi	th suitable exa	mples. Wr	ite down det	ail about two	diuretics of
pla	ntorigin.						(1+8+3+3)
7. An	swer any two:-						(7½ x 2)
	a) Cla	ssification of c	nzymes with e	xample			
750		ite a note on li		9253	25		
		ss anatomical					
	d) She	ek liver oil					

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SUBJECT: BIOCHEMISTRY & CLIMICAL PATHQLOGY (THEORY)

FULL MARKS-80	V	TIME- 3 hrs.
(Answer any five qu	uestions including Question No. 1)	
1. (A) Define the following terms:		(2x5)
STATE OF THE STATE	esis & Glycogenolysis (iii) Perniciou	s Anaemia
	(v) Agranulocytosis	20
(B) Fill in the blanks:	de de la companya del companya de la companya del companya de la c	(1×10)
(i) Chemical name of vitamin H is		
(ii) The co-enzymes of Niacin are		
(iii) Other name of Co-enzyme Q is	*	
(iv) The holoenzyme consists of		100
(v) Maltose on hydrolysis yields Gluco	Zobs.	
(vi) Presence of blood in Urine is called		
(vii) is a contractile protein.		TO STATE OF
(viii) is a non-reducing sug		
(ix) Barfoed's test is done for		
(x) Galactose excretion is urine is calle	d	
2. Define proteins & Amino acids? Classi	ify Amino acids with examples. Explain th	e Urea formation
cycle.		(15)
3. Define Enzymes. Classify Enzymes. W	rite a note on factors affecting enzyme act	tion. (2+3+10)
4. What is Glycolysis? Write different		
metabolism.	19	(2+9+4)
5. Describe the role of minerals (any five)	in our life process.	(15)
6 What is lymphocyte? Describe the diff	ference between T & B Lymphocytes. W	What is the role of
Blood platelets in health & diseases?		(3+6)
(b) Briefly describe about Radio opaqu	ue contrast media.	(6)
A. Discuss about abnormal constituent	s of urine and their significance in disease	s. (7.5 ±7.5)
B. Write a note on diseases which occu	- The Health Control (1985) - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 198	

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SUBJECT: HUMAN ANATOMY & PHYSIOLÓGY (THEORY)

FULL MARKS-80			7		TIME- 3 hrs
5 db:	(Answ	er any five ques	tions including	g Question No. 1)	
1. (A) Fill in the		350		3 %	(1x10)
(i)	is called ch	emical messeng	er in the body.		
(ii)	acts as pa	cemaker of the l	neart.		
(iii) Pulmonar	y veins carry	blood	L.	55	= 2
(iv) The norm	al value of he	emoglobin in m	ale is	*	
(v)		oup is universal			
(vi) pH of bloc	od is				TK.
' (vii)	_ is the larg	est abdominal o	rgan.	. Allen	
		t cervical vertel			
(ix) A period o	of relaxation	in cardiac cycle	is known as		
(x) The muscle	e that is unde	er the control of	our will is call	ed muscle.	Maria Mariana
(B) Define the foll	lowing:		1 6-		(2 x 5)
á) ESR	b) Liver	c) Nucleus	d)Anemia	é) Lymph	
2. Define tissue. C	lassify them	. Briefly discus	s about epithel	ial and nervous tissues.	(2+3+10)
				uss the significance of I	Rh factor. (2+7+6)
				the structure of skelet	
briefly about phys					(2+6+7)
5. Describe differe	ent parts of e	ye with diagram	n. Discuss the	physiology of vision.	(10+5)
				m. Briefly discuss ab	
function and disor			-20 55 550		(2+4+9)
7. a) Define digest	ion. Describ	e different parts	of digestive s	ystem with diagram.	(2+8)
b) Menstrual cv	Value of the same			and the second of the second s	(5)