SUPPLEMENTARY

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE

BIO-CHEMISTRY & CLINICAL PATHOLGOY					
Full Mark -80 Time - (Answer any five questions including question No. 1) (Answer and five questions including question No. 1)					
_					
1.	A) Define the following term	ms:	[2x5=10]		
	i) Enzyme inhibitors	1			
	ii) Hodgkin's & Non-Hodg iii)Glucose Tolerance Test				
	iv) Osteomalacia				
	v) Lymphocytosis				
	B) Fill in the blanks		[1x10=10]		
	i)	is an invert sugar			
	ii) Deficiency of Niacin cause	es			
	iii) Vitamin B7 is also known	as			
	iv) Deficiency of	causes rickets in children.			
	v) play	ys an important role in night vision.			
	vii) Millon's test is done for	are ketone bodies.			
	viii) Deficiency of Vitamin C	 C causes			
	ix) Night Blindness is due to	o deficiency of Vitamin.			
	x) The Co-enzyme of Ribo	flavin is			
2.	Define Glycolysis & describe	the steps involved in Embden Meyerhof Pathway with its ener	gy calculation		
		1 5 5	[1+9+5]		
3.	What are the normal & abnorm	nal constituents of urine. Enumerate the abnormal constituents			
5.	their clinical significance.	an constituents of unite. Enumerate the abnormal constituent.	[5+10]		
4	c	and briefly mention the different diagnostic application of			
4.	Enzymes.	and orienty mention the different diagnostic application of	[2+4+4]		
	B) Write a short note on factors	affecting enzyme action	[5]		
5.	A) Define Lipids & classify with		[3+6]		
01	B) Explain abut β oxidation of fa	*	[6]		
6.	A) What are proteins? Classify t	•	[6]		
	B) What are the biological funct		[5]		
	C) Describe any qualitative test f	•	[4]		
7.	Write short notes on any three	•	[5x3]		
	i) Ring structure of Glucose				
	iii) Disorder of fat metabolist	m iv) Urea cycle v) Sickle Cell Anaemia			

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HEALTH EDUCATION AND COMMUNITY PHARMACY							
Full Mark -80 Time (Answer any five questions including question No. 1)					Time -3 hrs		
1.	A)	Define th	e followings:				[2x5]
	i)	First Ai	d				
	ii)	Immuni	ty				
	iii) Safe Per	riod				
	iv)	Vitamin	S				
	v)	Demogr	aphy				
	B)	Expand t	the following a	bbreviations:			[1x10]
	i)	BCG	ii) MDT	iii) IUCD	iv) PEM	v) TSH	
	vi) CSF	vii) EEG	viii) ECG	ix) ICDS	x) IHD	
2.	Wha	t do you m	nean by determ	inants of Health?	Explain various	s determinants.	[3+12]
3.	· ·		• • •	assify different r on problem in IN		y planning.	[2+5] [8]
4.	Defi	ne immuni	ty and classify	and explain varie	ous immunologi	cal preparations.	[2+6+7]
5. 6.	b) V	Write the in	ndications and	e first aid treatment the procedure of municable and r	Cardio-pulmona	ary Resuscitation (CPR). ble diseases.	[2+8] [5] [6]
	b) V	Write down	n the causative	agent, mode of t	ransmission and	prevention of typhoid, mala	ria and AIDS. [9]
7.	a)Br	iefly descr	ribe the process	of disposing of	solid waste.		[6]
	b)Ex	aplain in de	etail the source	s, requirements, i	functions and de	ficiency diseases of calcium	, iodine and
		Iron					[9]

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HUMAN ANATOMY & PHYSIOLOGY – I (Theory)

Full N	lark -80	Time -3 hrs
	(Answer any five questions including question No. 1)	
1.	A) Fill in the Blanks:	[2x5=10]
	 i) Appendicular skeleton contains no. of bones & Axial Skeleton contains ii) is suicidal bag & is called power house of the cell. iii) In nervous system there are pairs of spinal nerve & pairs of cranis 	
	 iv) is the smallest bone & is the largest bone in human body. v) Absorption, Secretion and filtration is the function of tissue & tissue for supporting the organ. 	is responsible
	B) Write short notes on:	[2x5]
	(i) Erythroblastosis fetalis (ii) Mitochondria (iii) Tidal Volume (iv) Neuron ((v) Nephron
2.	Describe the different chambers of Heart. How circulation takes place with in it. Define Care	diac output
		[5+8+2]
3.	Enumerate the different parts of female genital organ with neat labelled diagram. Write in de	etails about
	the menstrual cycle	[5+5+5]
4.	Define Excretion. Draw a neat diagram of urinary tract. Write the mechanism of urine function	on.
		[2+5+8]
5.	Briefly describe the functions of different parts of brain.	[15]
6. Define Blood. Write the composition & Function of Blood. Discuss in detail a		ing
	Factors.	[2+5+8]
7.	Write short notes on any three of the following:	[5x3]
	i) Mechanism of respiration	
	ii) Spleen	
	iii) Hypothalamus	
	iv) Pituitary gland	

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	PHARMACEUTICAL CHEMISTRY – I (Theory)	T : 21			
Full N	Mark -80 (Answer any five questions including question No. 1)	Time -3 hrs			
1.	(A) Write the synonym of the following compounds:	[1x10]			
	a) Magnesium Sulphate b) Hydrochloric acid c) Calcium Hydroxide d) Titanium Dioxide	e) Mercury			
	f) Iodine Solution g) Sodium Thiosulphate h) Kaolin i) Ferrous Sulphate j) Zinc Chloride				
	(B) Define the following terms:	[1x10]			
	a) Astringent b) Bactericidal Agent c) Anticaries agent d) Achlorhydria	e) Emollient			
	f) Antacid g) Electrolyte h) Antidote i) Expectorant j) Lugol's solution				
2	Write short notes on any three:	[3x5]			
	a) ORS b) Topical agent c) Saline Cathartics d) Cyanide poisoning				
3.	a) Define Radioactivity and Radio isotopes? What is half-life of a radioactive compound?	[4+3+3]			
	What are the biological effects of radiation?				
	b) What are the applications of radioisotopes in Medicines.	[5]			
4.	a) What are anti-infective agents? Distinguish between an antiseptic & disinfectant. Classic				
	antimicrobial agents.	[2+2+5]			
	b) Briefly discuss the various mechanism of antimicrobial agents.	[6]			
5.	a) What do you mean Physiological buffer? Write down the mechanism of buffer action	n. [1+6]			
	b) Write the Chemical formula, physical & chemical properties & use of:	[4+4]			
	(I) Boric Acid (II) Sodium Hydroxide				
6.	Write short note on:(All three)	[5x3]			
	i) Antioxidants				
	ii) Ideal antacid				
	iii) Test of Purity				
7.	Differentiate between:(All Five)	[3x5]			
	(i) Isotope & Isobar				
	(ii) Milk of Magnesia & Milk of Lime				
	(iii) Weak Iodine Solution & Strong Iodine Solution.				
	(iv) Acidosis & Alkalosis.				
	(v) Hypertonic Solution & Hypotonic Solution				

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		PHARMACEUTICS	
Full 1	Mark -8	80 (Answer any five questions including question No. 1)	Time -3 hrs
		(Answer any five questions including question No. 1)	
1.	(A)	Fill in the blanks:	[1x5]
	i)	A liquid oral preparation taken as a single dose is called as	
	ii)	Milk is sterilised by method.	
	iii)	The tablet which are placed below the tongue is known as	tablet.
	iv)	Cork is obtained from the bark oftree.	
	v)	The dried BCG vaccine retains its potency for one year when stored at a tempera	<i>ture of</i>
	(B) L	Differentiate between the following:	[2x5]
	i)	Lotion & Liniment.	
	ii)	Purified Water & water for Injection.	
	iii)	Aristas & Asavas	
	iv)	Emulsion & Suspension.	
	v)	Vaccine & Toxoids	
	(C) D	Define the followings;	[1X5]
	i) S	Slug ii) Lozenges iii) Pessaries iv) Enemas v) Aerosol	
2.	Def	fine sterilization. Describe the various method of sterilization. Explain about dry he	at & moist
2		at sterilisation with neat & labelled diagram	[2+3+10]
3		e Short Notes (Any three)	<i>[3X5]</i>
		Factors affecting Evaporation	
	ii.	Glass Container with its advantages, disadvantages, composition & types.	
,			6 11 50 101
4.		fine tablet. Discuss different tests which are performed to assure the quality control	•
5.	•	fine drying and write down the applications. Enumerate the theory, construction, we advantages and uses of freeze-drying process.	orking, advantages, [2+3+10]
6.		plain the following (Any Three)	[2+3+10] [3X5]
	-	Vith labelled diagram+ Principle+ Advantages+ Disadvantages+ Uses)	
	i)	Fluid energy mill ii) Cyclone separator	
	iii)	Soxhlet apparatus iv) Fluidised bed Dryer	
7.	<i>,</i>	fine & Classify Immunity. Differentiate between Active Immunity & Passive Immun	ity.
	•	scribe the preparation of Small Pox Vaccine.	[2+3+10]

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PHARMACOGNOSY – I (Theory)					
F UII N	Full Mark -80Time -3 hrs(Answer any five questions including question No. 1)				
1.	(A) Write the biological source of the following crude drugs:	[1x10]			
	i) Senna ii) Vinca iii) Guggul iv) Castor oil v) Chaulmoogra oil				
	vi) Rauwolfia vii) Tulsi viii) Opium ix) Myrrh x) Cinchona				
	(B) Write the important uses of following crude drugs:	[1x10]			
	i) Arjuna ii) Aconite iii) Aloe iv) Asafoetida v) Beeswax				
	vi) Black pepper vii) Catechu viii) Digitalis ix) Neem x) Nux-vomica				
2	Write the synonyms, biological source, chemical constituents and uses of following drugs:	[5x3]			
	i) Ipecacuanha ii) Ashwagandha iii) Liquorice				
3.	Define glycosides. Name the five glycoside containing drugs. Write the official sources	, chemical			
	constituents and microscopical features of Senna.	[2+5+8]			
4.	i) Define fibre. Classify them with suitable examples. Write the biological source and preparation	n			
	of cotton?	[1+3+2+4]			
	ii) Write a note on Regenerate Fibre	[5]			
5.	Answer any three:	[5x3]			
	i) Adulteration of crude drug ii) Collection & Preparation of Ergot				
	iii) Isolation of Volatile oils iv) Identification tests of Alkaloids				
6.	Write notes on (any three):	[5x3]			
	i) Physical evaluation of drugs ii) Umbelliferous fruits				
	iii) Borntrager test iv) Lycopodium Spore Method				
7.	A) Define crude drugs.	[2]			
	B) Write down the morphological &pharmacological classification of crude drugs with example	e. [8]			
	C) Write down the different methods of evaluation of crude drugs.	[5]			
