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(GIMT & GIPS)
Azara, Hatkhowapara,
Guwahati -781017

Roll No. of candidate

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2019

D. PHARM. 1st Year End-Term Examination PHARMACEUTICAL CHEMISTRY - I

Full Marks - 80

Time - Three hours

The figures in the margin indicate full marks for the questions.

1. Answer the following questions: $(10 \times 1 = 10)$

- (a) (i) First edition of I.P. was published in the year
 - (ii) First edition of B.P. was published in the year ———.
 - (iii) Aluminium hydroxide gel is used as
 - (iv) Chlorinated lime is called Bleaching powder. (True/False)
 - (v) Sodium fluoride is used as ———.
 - (iv) Potassium iodide is soluble in water. (True/False)
 - (vii) Sodium chloride (0.9% w/v) is used as

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	(viii)	Sodium bicarbonate is a non-systemic antacid. (True/ False)				
	(ix)	Lead limit test is carried out in Nessle cylinder. (True/False)				
	(x)	Barium sulphate is a Radioopaque contrast medium. (True/False)				
Choo	se th	ne correct answer: $(10 \times 1 = 10)$				
(b)	(i)	Talc is obtained from ———.				
		(a) Animal source				
	* !	(b) Plant source				
		(c) Marine source				
		(d) Mineral source				
	(ii)	Magnesium sulphate is ———.				
		(a) Bulk purgative				
		(b) Saline purgative				
		(c) Irritant purgative				
		(d) None of the above				
	(iii)	Sodium meta-bisuiphite is a ———.				
		(a) Antioxidant				
		(b) Antacid				
		(c) Antiseptic				
		(d) Antimicrobial				
	(iv)	Iodine is soluble in ———.				
		(a) Water				
		(b) Ether				
		(c) Potassium iodide aqueous solution				
		(d) None of the above				
	(v)	Ferrous sulphate is called ———.				
		(a) Green vitriol				
		(b) Blue vitriol				
		(c) White vitriol				
		(d) None of the above				

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		(V1)	(a) G.M counter method (b) pH meter (c) Spectrophotometer			
		(vii)	(d) Volumetric titration method Asenic limit test is carried out in			
			 (a) Nessler cylinder (b) Separating funnel (c) Gutzeit apparatus (d) All of the above 			
		(viii)	Iron preparation are used in (a) Insomnia (b) Anaemia BINA CHOWDHURY CENTRAL LIBRARY (c) Arthritis (GIMT & GIPS) Azara, Hatkhowapara, (d) Diarrhoea Guwahati -781017			
*		(ix)	Thioglycollic acid is used in ———. (a) Sulphate limit test (b) Chloride limit test (c) Iron limit test (d) Heavy metal limit test			
		(x)	Latest edition of I.P. was published in (a) 2010 (b) 2014 (c) 2018 (d) 2019			
S	Shor	t Ansv	wer questions (any six): $(6 \times 5 = 30)$			
(:	a)		e the Bronsted-Lowry concept of acid and base suitable examples. (5)			
(b)	Define Antacid with examples. Classify them. Write two ideal properties of antacid. (1+2+2=5)				
(c)		e the preparation of Hydrogen Peroxide in ratory scale with its storage condition. (5)			

[Turn over

2.

- (d) Write in short the clinical uses of Oxygen and Carbon dioxide. (5)
- (e) Write the storage, handling and uses of radioactive pharmaceuticals. (5)
- (f) Discuss the combination of oral electrolyte powders and solutions. (5)
- (g) Write the classification of cathartics with their mechanism of action with suitable examples. (5)
- (h) Define Antiseptic and Disinfectant with example. Write the mechanism of action of antimicrobials. (2+3=5)

Long answer questions (any three): $(3 \times 10 = 30)$

- 3. (a) Discuss the principle and method of Arsenic Limit test. (5+5=10)
 - (b) Define Acidosis and Alkalosis. Write the preparation and uses of Aluminium hydroxide gel and sodium bicarbonate. (3+2+3+2=10)
 - (c) (i) What do you mean by Topical agents. Write the preparation and uses of Iodine. (2+2+2=6)
 - (ii) Write the role of Fluoride in the treatment of Dental Carries. (4)
 - (d) Write the various sources of impurities in pharmaceutical chemicals. (10)
 - (e) Explain about the Geiger-Muller counter with diagram. (10)

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