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Beta-lactam and thiazolidine ring

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D.Pharm 1st Year End-Term Examination

Part - I

PHARMACEUTICAL CHEMISTRY - I

Full Marks - 80 Time - Three hours The figures in the margin indicate full marks for the questions. A. Objective type questions (Answer all) Cefadroxil is an example of (a) 1st Generation Cephalosporin (b) 2nd Generation Cephalosporin (c) 3rd Generation Cephalosporin (d) 4th Generation Cephalosporin The best example of sedative and hypnotic is (11)(a) Acetazolamide (b) Metformin (c) Cyproheptadine (d) Alprazolam (iii) Resperidone is a(n) Antipsychotic drug (b) Diuretic (c) Antineoplastic agent (d) All of the above (iv) The yellow colour stain formed on lead acetate paper during the limit of Arsenic is due to-Arsennious acid (a) (b) Amine gas (c) Zncl. (d) H,S Streptomycth is a (n) (v) (a) Aminoglycoside (b) Barbiturate Steroid (c) (d) None ' (vi) Pen-G contains (a) Cyclic ring (b) Pyridine ring

(d)

Thiazolidine ring

(c)

(VII)	Pha	enormazine ring is mostly for	THU III.	
	(a)	Chlorpromazine	(b)	Haloperidol
	(c)	Ketamine HCl	(d)	All of the above
(viii)) Wh	ich of the following is not an e	exampl	e of intravenous anaesthetics?
	(a)	Etomidate ketamine	(b)	Fentanyl
	(c)	Diazepam	(d)	Halothane
(ix)	Bra	nd name of Imipramine is-		
	(a)	Luvox	(b)	Celexa
	(c)	Paxil	(d)	Tofranil
(x)	Wh	at is the storage condition of	Alpraz	olam?
	(a)	20-25°C	(b)	30-35°C
	(c)	10-15°C	(d)	15-20°C
(xi)	The	chemical name of	— is 5	-fluoro-1H, 3H-pyrimidine-2, 4-dione
	(a)	Vincristine	(b)	Vinblastine
	(c)	Dactinomycin	(d)	Fluorouracil
(xii)	Cop	per sulphate is also known as	3	
	(a)	Blue vitriol	(b)	Red vitriol
	(c)	Green vitriol	(d)	All of the above
(xiii)) The	molecular weight of nitrous	oxide i	S-1 AND STATE OF THE STATE OF T
	(a)	46.1	(b)	44.0
	(c)	40.2	(d)	42.2
(xiv)	Wh	ich of the following is not an e	examp)	e of non-systemic antacid
	(a)	Aluminium salts	(b)	Magnesium salts
	(c)	Sodium bicarbonate	(d)	Calcium carbonate
(xv)	Sod	ium fluoride is a(n)		
	(a)	Anticaries agent	(b)	Antacid
	(c)	Antibiotic	(d)	Analgesic
(xvi)	Am	itryptiline is a	150	
	(a)	Dibenzcycloheptane derivat	ive	Assistantill all
	(b)	Dibenzazepine derivative		and the State of the
	(c)	Barbituric acid derivative		
	(d)	Biguanide derivative		
(xvi	i) Th	e best example of thiazolidin	edione	s is
	(a)	Rosiglitaone	(b)	Ciglitazone
	(c)	Both (a) and (b)	(d)	Only (a)
(xvii	ii) W	hich of the following is an ant	i-psyc	hotic drug?
	(a)	Gabapentin	(b)	Duloxetine
	(c)	Chlorpromazine	(d)	Propofol

	(xx) Propranolol is ————					
	(a) Antihypertensive (b) Antineoplastic					
	(c) Antimalarial (d) All of the above					
В.	Answer the following questions. (ten out of 11) $(10 \times 3=30)$					
2.	What do you mean by anti-convulsants? Write down the structures of the following					
	(a) Phenytoin					
	(b) Valproic acid					
3.	Define tuberculosis. Classify anti-tubercular drugs with suitable examples. Write down the structures of					
	(a) Isoniazid					
	(b) PAS					
4.	What are antacids? What are the ideal properties of antacids? Classify antacids with examples.					
5.	Mention the preparation, physical properties, chemical properties, storage conditions and uses of sodium bicarbonate.					
6.	Describe the pharmaceutical formulation, preparation, storage condition of Magalgrate.					
7.	Define the following					
	(a) Determinate error					
	(b) Accuracy					
	(c) Precision					
8.	What do you mean by anaesthetics? With suitable examples briefly classify general anaesthetics.					
9.	Write down the structures and IUPAC names of the following					
	(a) Thiopental sodium					
	(b) Ketamine HCl					
	(c) Tribromo ethanol					
10.	What are sedatives and hypnotics? write down the structures of					
	(a) Diazepam					
	(b) Nitrazepam					
	(c) Phenobarbitul					

(b)

(d)

Drug

All of the above

(xix) Dopamine is a (n)

Medicine

(a)

(c)

Neurotransmitter

- 11. What is Al(OH)₃ Gel? Write the physical and chemical properties, preparation and storage conditions of aluminimum hydroxide gel.
- 12. What is streptomycin? Write down its mechanism of action, storage and pharmaceutical preparations involved.
- C. Answer the following questions. (six out of 7)

 $(6 \times 5 = 30)$

- 13. Define antibiotics. Classify them with suitable examples. Write down the structures of the following with their IUPAC names
 - (a) Pen-G
 - (b) Pen-V
 - (c) Ampicillin
- 14. What do you mean anti-neoplastic agents? write down the structures of the following
 - (a) Cyclophosphamide
 - (b) Fluorouracil
 - (c) Busulfan
 - (d) Methotrexate
- 15. Define anti-matarials. Classify them with examples. Draw the structures of the following
 - (a) Quinine sulphate
 - (b) Chloroquine
 - (c) Mefloquine
- 16. What are sulphonamides? Write down the structures of the following
 - (a) Sulfadiazine
 - (b) Sulfamethazole
 - (c) Sulfacetamide
- 17. Define anti-virals. Classify them with suitable examples. Write down the structures of
 - (a) Acyclovir
 - (b) Gancyclovir
 - (c) Remdesivir
- 18. What are anti-hypertensive agents? Write a note on propranolol with its chemical and physical properties together with its storage conditions
- 19. Define diuretics. Classify them with suitable examples. Write the structure of acetazolamide and furosemide with special emphasis on the physical, chemical and storage conditions of furosemide.

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