2000

## PHARMACEUTICAL CHEMISTRY

Time: 3:00 Hours]

NOTES:

[Maximum Marks: 80

Code No.: 2602

- i) Attempt all questions.
- Students are advised to specially check the Numerical Data of question paper in both versions. If there is any version.
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- iii) Use of Pager and Mobile Phone by the students is not allowed.

## PART-A

Answer any six questions. Each question carries equal marks.

 $[6 \times 5 = 30]$ 

Q1) Describe the principle and chemical reactions involved in the limit test for the following: (any one)

[5]

- a) Iron
- b) Arsenic
- Q2) What is redox titration? Discuss about the standardization of potassium permangnate against oxalic acid.

[2×1=2]

- Q3) a) Define any two of the following:
  - i) Haematinics.
  - ii) Topical Agents.
  - iii) Gastro-intestinal Agents.
  - b) Write a note on saline cathartics.

[3]

- Q4) What are heterocyclic compounds classify heterocyclic compounds giving one structure from each class.
- [1+4=5]

Q5) Write the chemical structure of any five of the following:

[5×1=5]

- a) Paracetamol
- b) INH
- c) Dapsone
- d) Metformin
- e) Phenobarbital
- f) Imipramine Hydrochloride
- g) Dopamine

(0)	Write the stability and storage	conditions of any five of the following:	2602
	a) Chloramphenicol	conditions of any five of the following:	[5×1=5]
	b) Insulin		
	c) Aspirin		
	d) Sulphacetamide		
	e) Cyclophosphamide		
	f) Diazepam		
	g) Acyclovir		
Q7)	Write the popular brand name	and uses of any five of the following:	
	a) Isobarbide dinitrate.	and of any five of the following:	[5×1=5]
	b) Sulfacetamide.		
	c) Propranolol.		
	d) Diclofenac.		
	e) Ofloxacin.		
	f) Rifampicin.		
	g) Remdesivir.		
	h) Chlorpromazine.	(6)	
		100	02
		PART-B	3.0
	Anguage and the second	200	1/2
	Answer any ten questions. All c	luestions carry equal marks.	73. [3]
Q1)	Discuss any three different cour	room of im. Act.	73
	2.30 day timee different sour	rces of impurities in pharmaceuticals.	, O, O, (3)
Q2)	Write in short about gravimetric	c analysis	
		30	[3]
Q3)	Discuss the combination of anta	acids.	[2]
		O.	[3]
Q4)	Write a note on narcotic antago	acids.  mists.  mertensive drugs with suitable examples	[3]
	1	92	
Q5)	Discuss in short about Anti-hyp	pertensive drugs with suitable examples.	[3]
		1,1	
Q6)	Write the storage conditions of	any three of the following.	[3×1=3]
	a) Oxygen	No.	
	b) Silver Nitrate.		
	c) Ferrous Sulphate.		
	d) Sodium Fluoride.		
	e) Aluminium Hydroxide G	el.	
	What are Anti-neoplastic agents	? Give some examples.	[1+2=3]
Q7)	What are And heophanic Benny		(

Q8)	Write in brief about Non-Steroidal Anti inflammatory Agents.						
Q9)	What are hypoglycemic agents? Give examples of oral hypoglycemic agents.						
Q10)	Define any three of the following:  a) Diuretics.  b) Anaesthetics.  c) Anticonvulsants.  d) Dental products.		[3×1=3]				
Q11)	Write about Anti-tubercular Drugs.		[3]				
	PART - C						
	Multiple choice questions/Fill-in the blanks. Answer all questions. Each question carries equal marks.						
	Multiple Choice Questions.						
Q1)	A chemical that changes its colour in acidic and basic a). Indicator c) Analyte	b) Titrade	0				
Q2)	Which of the following is antacid?  a) Hydrogen Peroxide	Ferrous Fumarate	13.				
Q3)	c) Aluminium Hydroxide Gel  General Formula for alkene is:  a) $C_nH_{2n+2}$ c) $C_nH_{2n-2}$	d) None of these  b) Ferrous Fumarate d) Silver Nitrate  b) C <sub>u</sub> H <sub>2n</sub> d) None of these					
Q4)	Ferrous sulphate is used in the treatment of:  a) Scurvy  c) Anaemia	b) Diabetes d) Marasmus					
Q5)	Which of the following is heteroatom?  a) B  c) N	(b) O K					
Q6)	Which of the following is Anti-Neoplastic Drug?  a) Methotrexate c) Spironolactone	b) Chloroquine phosphate d) Epinephrine					
Q7)	Calpol is the brand name of which of the following?  a) Terbutaline c) Ethambutol	b) Fluconazole d) Paracetamol					

Q8)	5, 5-diphenylimidazoline - 2, 4- dione is the chemical name of.					
	a)	Atenolol	b)	Phenytoin		
	c)	Frusemide	c)	Haloperidal		
Q9)	Which of the following drugs is second generation hypoglycemic agent of sulfonylureas class?					
	a)	Metformin	b)	Glibenclamide		
	c)	Pioglitazone	d)	Repaglinide		
Q10)	Grise	ofulvin is:				
	a)	Anaesthetic	b)	Hypoglycemic		
	c)	Antifungal	d)	Laxative		
	Fill-i	n the blank				
Q11)	Chem	nical formula of sodium bicarbona	te is	1680	0	
Q12)	Nitro	us oxide is also know as	gas.wh		1,13.	
Q13)	Calm	pose, valium are brand names of _	N Day		33.73A.73.60	
Q14)	Chlor	ramphenical is the drug of choice	for the treatment of_	- 30/1		
Q15	) Hydi	ogen peroxide is used as an antid	ote ina	ndpoisoning.		
Q16	) Thio	pental sodium hasodo	our with	-thste		
Q17	) Piloc	carpine is used in the treatment of	201:1			
Q18	Amp	photericin B is the most effective d	rug against	infections.		
Q19	) Glib	enclamide possesses a	group in its chemica	al structure.		
Q20	) The	full form of EDTA is				