$1 \times 20 = 20$ 

REV-01 DPH/60/65

## D.PHARM. FIRST YEAR PHARMACEUTICAL CHEMISTRY ER20-12T

Duration: 3 hrs. Full Marks: 80

## (PART-A: Objective)

Choose the correct answer from the following:

c. Cross linking of DNA strands

Macrolide antibiotics inhibit protein synthesis by binding with a. 70s subunit b. 30s subunit d. None of the above c. 50s subunit Penicillin was discovered by scientist a. Paul ehrlich b. Gerhard Domagk d. None of the above Alexander fleming The drug which is used as diuretics and hair care product is a. Mannitol b. Mephalan c. Minoxidil d. Metolazone Which of the following disease is known as juvenile disease? a. Type I diabetes mellitus b. Type II diabetes mellitus c. Type II diabetes mellitus d. Type IV diabetes mellitus 5. Ramipril is an example of a. Beta blockers b. ACE Inhibitors c. Alpha blockers d. Calcium channel blockers Pharmaceutical preparation for Mitomycin is a. Tablet b. Cream c. Capsule d. Injection Flecainide belongs to which class a. Class 1A b. Class 1D c. Class 1C d. Class 1E Mefloquine is a. 4- amino quinoline b. Quinine methanol c. 8- amino quinoline d. 2,4 - diaminopyrimide Which category of Anti Anginal agents produce a side effect commonly known as Monday morning sickness: a. Calcium channel blockers b. Nitro vasodilators c. Potassium channel blockers d. All of the above 10. Alkylating agents exert cytotoxic action by inducing: a. Breakage of DNA strand b. Abnormal pairing of purine and pyrimidine bases

d. All of the above

11.	Malaria is a –	
	a. Bacterial disease	b. Fungal disease
	c. Protozoal disease	d. Algal disease
12.	Calmpose valium is brand name of	
	a. Diazepam	b. Paracetamol
	c. Ibuprofen	d. Ketoconazole
13.	A chemical that changes its colour in acidic called.	and basic medium during titration is
	a. Indicator	b. Titrant
	c. Analyte	d. None of these
14.	Which of the following is heteroatom?	
	a. B	b. N
	c. K	d. Na
15.	Nitrous oxide is also known as ga	s
	a. Crying Gas	b. Laughing Gas
	c. Tearing Gas	d. Fearing Gas
16		
10.	Orally and topically active antifungal drug  a. Itraconazole	
	c. Terbinafine	b. Fluconazole
		d. ketoconazole
17.	Aceclofenac is used in	
	a. Bursitis	b. Toothache
	c. Spondylitis	d. All of these
18.	Heterocyclic ring present in furosemide is	
	a. Pyridine	b. Furan
	c. Pyrimidine	d. Pyrizine
19.	Which one of the following drug belongs to class nitrosoureas	
	a. Thiotepa	b. Lomustine
	c. Busulfan	d. Decarbazine
20	Which one of the following is not a first line	
20.	Which one of the following is not a first line  a. ethambutol	
		b. rifampin
	c. rifabutin	d. pyrazinamide

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## PART-B: Short Answers

	[ Answer any ten (10) from the following ]		
		[3x10=30]	
1.	Define virus and write the stages of replication of virus	1+2=3	
2.	Write the difference between sedative and hypnotics. Classify sedative and hypnotics with example	1+2=3	
3.	Explain life cycle of Malaria		
4.	What do you mean by First line Anti Tubercular Drug. Why Multi drug Regimen is preferred in tuberculosis treatment.	1+2=3	
5.	Define and Classify Diuretics with Example.	1+2=3	
6.	Define Angina Pectoris and Write the Mechanism of action of Nitrates	1+2=3	
7.	Define limit test and write the principle involved in limit test for iron		
8.	<ul> <li>Give reason</li> <li>a. Why glycerin is used in assay of Boric acid assay</li> <li>b. Combination antacid is more preferable than individual antacid compound</li> <li>c. Why formaldehyde is used in assay of ammonium chloride.</li> </ul>	1+1+1 =3	
9.	Define adrenergic antagonist. Classify them with examples	1+2=3	
10.	Write the labeling requirement and uses of $\text{CO}_2$ , $\text{NO}_2$ and $\text{O}_2$ .	1+1+1 =3	
11.	Explain acid-base titration with examples.	3	
(PART-C: Long Answers)			
	[ Answer any six (6) from the following ]	[5x6=30]	
1.	Define NSAID. Write the structure, brand name and uses of aspirin and paracetamol	1+4=5	
2.	Define and classify anti hypertensive agent with example	1+4=5	

3.	Define Diabetes Mellitus. Write its types. Write the role of Insulin. Write the name of secreted hormone of Alpha, Beta and Gamma cells present in Pancreas	5
4.	Define cancer and classify them. Classify alkylating agent as anti cancer agent and write it's mechanism of action.	1+2+2 =5
5.	Define Anti Arrhythmic agents. Classify them with example. Write the structure and uses of Procainamide	1+2+2 =5
6.	Define "Antacid" Classify them with example. Write a short mono-graph of any one drug of it.	1+1+3 =5
7.	Define Heterocyclic Compound. Write the nomenclature of Heterocyclic Compound accordind to Hantzsch and Widman	1+4=5

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