

## **GPAT Discussion Center: Makes Study Easy**

## **GATE - 2000**

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### PHARMACEUTICAL SCIENCE

#### Time : 3 hours

#### Maximum Marks: 150

#### Read the following instruction carefully.

- 1. All answers must be written only in hte answer-book provided.
- 2. This question paper consists of **TWO SECTIONS** : Section 'A' and 'B'.
- 3. Section A consists of two questions of the multiple choice type. Question 1 consists of TWENTY FIVE sub-questions of ONE mark each and Questions 2 consists of TWENTY FIVE sub-question of TWO marks each.
- 4. The answers to the multiple type questions must be written only in the boxes provided in the sheet of the answer-book.
- 5. Answers to **Section B** should be started on a fresh page and should not be mixed with the answers to **Section A**. Question numbers must be written legibly and correctly in the answer-book.
- 6. Secttion B consists of **TWENTY** questions of FIVE marks each. Any **FIFTEEN** out of them have to be answered. If more number of questions are attempted, strike off the answer not to be evaluated, else only the first **FIFTEEN** unscored answers will be considered strictly.
- 7. In all questions of 5 marks. write, clearly the inportant steps in your answer. These steps carry partial credit.
- 8. There will be **NO NEGATIVE** marking.



- (i) This question consists of 25 (Twenty five) multiple choice questions each carrying one mark.
  - (ii) Choose the correct answer.
  - (iii) Enter (a) or (b), (c) or (d) as the case may be in the boxes corresponding to the questions in the first page of the answer book.
- 1. One of the substances is listed is used as muco adhesive
  - (a) Acacia
- (b) S.C.M.C
- (c) Burnt sugar
- (d) Saccharin

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2.	In the preparation of mu	ltilayer tablets one of the su	ubstances listed is used to Hydr	ophilic matrix coating
	(a) C.M.C	(b) Shellac	(c) Stearyl alcohol	(d) Bees wax
3.	Choose the correct pH of	the lachrymal fluid		
	(a) 8.0	(b) 6.2	(c) 7.4	(d) 9.0
4.	The dip tube in an aerose	ol container is made from o	one of the following. Choose the	e correct one
	(a) Polypropylene	(b) Glass	(c) Stainless steel	(d) Aluminium
5.	The diameter of the mes	sh aperture in the I.P disin	ntegration test apparatus is given the second se	ven below. Choose the
	correct size.			
	(a) 2.00 mm	(b) 4.00 mm	(c) 1.00 mm	(d) 1.50 mm
6.	Choose the correct source	e of radiation for N.M.R fr	om the listed ones	
	(a) Klystron oscillator		(b) Globar source	
	(c) Radio frequency osc	illator	(d) Deuterium lamp	
7.	Choose the correct semi-	rigid gel used for exculsio	n chromatography	
	(a) Sephadex	(b) Gelatin	(c) Cellulose	(d) Alumina
8.	One the following is meas	sured in amperometric titr	ation	
	(a) Resistance	(b) Conductance	(c) Voltage	(d) Current
9.	The oil obtained from Cy	mbopogan flexuousus conta		
	(a) Citral	(b) $\alpha$ -terpeniol C E	(c) α-pinene	(d) Neral
10.	Choose the correct key in	ntermediate for the biosyn	thesis of $C_6^-C_3$ units, which ser	ves as a precursor for
	the biosynthesis of amino	o acid		
	(a) Shikimic acid	(b) Pyruvic acid	(c) Dehydro quinic acid	(d) Mevalonic acid
11.	β-phenyl-N-alkyl piperidi	ine moiety is largely respon	nsible for activity in one of the f	ollowing. Choose the
	correct one			
	(a) Buprenorphine	(b) Pethidine	(c) Cycloserine	(d) Amitryptiline
12.	Which one of the following	ng is a Histamine H <sup>1</sup> recep	tor antagonist?	
	(a) 4-(5-H di benzo [a, d	l] cyclohepten-5-Ylidene)-1	-methyl pyridine hydrochloride	
	(b) 4-(5-H di benzo [a, d	l] cyclohepten-5-Ylidene)-1	-methyl pyrimidine hydrochlor	ide
	(c) 4-(5-H di benzo [a, d	l] cyclohepten-5-Ylidene)-1	-methyl piperidine hydrochlori	de
	(d) 4-(5-H di benzo [a, d	l] cyclopentane-5-Ylidene)-	1-methyl piperidine hydrochlor	ide
13.	Dienoestrol is synthesise	d from		
	(a) 4-Hydroxy propioph	enone	(b) 4-amino acetophenone	
	(c) 4-Chloro butyropher	ione	(d) 4-Bromo propiophenone	2
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14.	One of the following div	retics has a similar struct	ure as that of antihyperte	nsive agent diazoxide
	(a) Acetozolamide		(b) Chlorothiazide	
	(c) Spironolactone		(d) Furosemide	
15.	Which one of the follow	ving is an antifungal polye	ene macrolide antibiotics	with seven conjugated double
	bond, an internal ester,	a free carboxyl group and	a glycoside side chain wi	th primary amino group
	(a) Streptomycin	(b) Echinocandins	(c) Rifamycin	(d) Amphotericin-B
16.	Choose the correct class	IV anti-arrhythmic that is j	primarily indicated for the	e treatment of supra ventricular
	tachyarrhythmias			
	(a) Mexiletine	(b) Diltiazem	(c) Nifedipine	(d) Propranolol
17.	One of the following and	iviral agents exhibits the g	greatest selective toxicity	for the invading virus
	(a) Amantadine	(b) Zidovudine	(c) Idoxuridine	(d) Acyclovir
18.	Choose the drug that of	ten causes tachycardia wh	nen given in regular doses	3
	(a) Verapamil		(b) Guanethidine	
	(c) Propranolol		(d) Isosorbide dinitra	ate
19.	Choose one appropriate	e therapeutic use for Imip	ramine	
	(a) Insomnia		(b) Epilepsy	
	(c) Bed wetting in chik		C (d) Mania	
20.	The following prescript	ion is given to the pharma	cist by the physician to d	ispense
	R <sub>x</sub>			
	Calciferol solution	0.3		
	Water to Q.S	5.0 ml send 25 ml		
	Final dosage from of thi	s prescription will be		
	(a) Solution	(b) Elixir	(c) Emulsion	(d) Suspension
21.	Purpose of a combined	drug regimen in tuberculo	osis is to	
	(a) Delay the emergene	ce of drug resistance	(b) Reduce the durat	ion of active therapy
	(c) Schedule the onset	of therapy	(d) Promote a placeb	o effect on the patient
22.	The R-W coefficient test	is used to evaluate		
	(a) Antibiotic activity		(b) Sterility of package	ging material
	(c) Nature of organism		(d) Bactericidal activ	
23.	Diclofenac tablet coated	with cellulose acetate phth	nalate has been administe	red to a patient. Where do you
	except the drug to be re	eleased?		
	(a) Stomach	(b) Oral cavity	(c) Small intestine	(d) Liver
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24.	A m	licroscopic exan	nination of a culture	isolate re	vealed spheric	cal bodies with a smooth o	utline growing in
	long	g chains. Identif	y the micro organisn	1			
	(a)	Staphylococcus	aureus		(b) Stre	ptococcus pyogenes	
	(c)	Rhizopus stolor	nifer		(d) Baci	illus subtilis	
25.	An	original license	or renewed license	to sell dr	ugs remains v	alid upto	
	(a)	31 <sup>st</sup> March nex	t year in which it is	granted			
	(b)	30 <sup>th</sup> June of th	e following year in w	which it is	s granted or re	enewed	
	(c)	31 <sup>st</sup> January of	the same year in w	hich it is	granted		
	(d)	31 <sup>st</sup> December	of the year followin	g the yea	ar in which it i	is granted or renewed	
						oriate item on the right [A	ABCD] and write
	in t	ne specific spa	ce provide in the a	nswer d	OOK as show	n below.	
26.	Tas	te sensation o	f some liquid oral	formula	tion are give	n. Match the compatible	flavour used in
	the	formulation					
	1.	Salt		(A)	Wild cherry	L	
	2.	Sour		(B)	Vanilla	N	
				(C)	Citrus T E	R	
				(D)	Chocolate		
		1-B, 2-C	(b) 1-C, 2-D		1-C, 2-A	(d) 1-A, 2-D	
27.	Exc	-	parentral products a	-			
	1.	Chelating agen			Benzyl alcoho	ol	
	2.	Local anaesthe	etic		Phenol		
					Gelatin		
					Disodium ede	etate	
	(a)	1-B, 2-D	(b) 1-C, 2-D	(c)	1-C, 2-A	(d) 1-D, 2-A	
28.		C	ven. Match them with	1 correct	surfactant		
		0 – 3		(A)	Solubilizing a	gent	
	2.	4 - 6			Detergent		
					Antifoaming	-	
					W/O emulger		
	(a)	1-B, 2-D	(b) 1-C, 2-D	(c)	1-C, 2-A	(d) 1-A, 2-D	
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29.	Give	en below are the	type of excipients. Ma	atch th	em with the e	xamples	
	1.	Disintegrant		(A)	Talc		
	2.	Glidant		<b>(</b> B <b>)</b>	P.V.P		
				<b>(C)</b>	Lactose		
				(D)	Acacia		
	(a)	1-B, 2-D	(b) 1-C, 2-D	(c)	1-C, 2-A	(d) 1-D, 2-A	
30.	List	ed below are the	Schedules to the Dru	igs and	Cosmetics Ac	ct. Match them	
	1.	Schedule 'M'		(A)	Standard for	disinfectant fluids	
	2.	Schedule 'O'		<b>(</b> B <b>)</b>	Standard for	ophthalmic preparation	
				<b>(C)</b>	Requirement	t of factory premises	
				(D)	Standard for	cosmetics	
		1-B, 2-D	(b) 1-C, 2-D		1-C, 2-A	(d) 1-A, 2-D	
31.	The	e following recept	tor are associated wit	th drug	mentioned. M	latch them	
	1.	$H_1$ receptor		(A)	Ketanserin		
	2.	5HT <sub>3</sub> receptor		(B)	Cimetidine	ľ	
				TOTO	Diphenhydra	TAC	
				-(D)	Ondansetron	D	
	(a)	1-B, 2-D	(b) 1-C, 2-D	(c)	1-C, 2-A	(d) 1-A, 2-D	
32.	Mat	_	drug with their recep				
	1.	Methadone			Agonist of µ	•	
	2.	Enkephanlins		<b>(</b> B <b>)</b>	U	f µ, δ & к receptor	
				(C)	Agonist of µ	-	
						δ&к receptor	
		1-A, 2-A	(b) 1-C, 2-D		1-C, 2-A	(d) 1-A, 2-D	
33.		C	their mechanism of a				
	1.	Mebendazole			Unkown mec		
	2.	Ivermectin		(B)	Neuromuscu receptor	ılar blockade by interactio	on with nicotinic
				<b>(C)</b>	Intensifies	GABA mediated neuro	transmission in
					nematode an	d cause immobilization of	<sup>r</sup> parasite
				(D)	Selectively in	hibits microtubule synthes	sis in nematodes
	(a)	1-D, 2-C	(b) 1-C, 2-D	(c)	1-C, 2-A	(d) 1-A, 2-D	
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34.	Mat	tch the following	drugs for their mec	hanism	of action		
	1.	Procainamide		<b>(</b> A <b>)</b>	Blocks Ca <sup>++</sup> cha	annel	
	2.	Verapamil		<b>(B)</b>	Blocks K <sup>+</sup> chan	nnel	
				<b>(C)</b>	Blocks Na <sup>+</sup> cha	nnel	
				(D)	Block $\beta$ adrene	oceptors	
	(a)	1-B, 2-D	(b) 1-C, 2-D	(c)	1-C, 2-A	(d) 1-A, 2-D	
35.	The	e metabolic reacti	ons of drugs mentio	oned in A	A to D are given	n. Match them	
	1.	Nitro reduction		(A)	Oxprenolol		
	2.	Deamidation		<b>(B)</b>	Isoniazid		
				<b>(C)</b>	Chlorampheni	col	
				(D)	Lidocaine		
	(a)	1-B, 2-D	(b) 1-C, 2-D	(c)	1-C, 2-A	(d) 1-A, 2-D	
36.	Dru	ıgs given below h	ave the characterist	tics men	tioned in A to I	D. Match them	
	1.	Ibuprofen		(A)	An aryl acetic a	acid	
	2.	Acetaminophen		<b>(B)</b>	A salicyclic aci	d derivative	
				(C)	An active meta	bolite of another drug	
						the blood stream	
	(a)	1-A, 2-C	(b) 1-C, 2-D 🔰	(c)	1-C, 2-A E	<b>R</b> (d) 1-A, 2-D	
37.	The	e systematic nam	es of the following o	lrugs are	e given. Match t	hem	
	1.	Tinidazole		<b>(</b> A <b>)</b>	2-[4-3-2-trifluc	oro-methyl pheno selenazi	ne-10-yl] propyl
					piperazine-1-y	vl] ethanol	
	2.	Fluphenazinede	canoate	<b>(</b> B <b>)</b>	1[2-(ethyl sulp	honyl) ethyl]-2-methyl-5-	nitro imidazole
				<b>(C)</b>	1-[2-ethyl sulp	honyl)-propyl]-2-methyl-5	5-nitro imidazole
				(D)	2-[4-3-(2-trifle	uoro-methyl phenothiazi	n-10-yl) propyl
					piperazin-1-yl	] ethanol	
	(a)	1-B, 2-D	(b) 1-C, 2-D	(c)	1-C, 2-A	(d) 1-A, 2-D	
38.	Mat	tch the heterocyc	lic system with the	drug			
	1.	Aziridine		<b>(</b> A <b>)</b>	Thiotepa		
	2.	Pteridine		<b>(</b> B <b>)</b>	Azathioprine		
				<b>(C)</b>	Atropine		
				(D)	Methotrexate		
	(a)	1-B, 2-D	(b) 1-C, 2-D	(c)	1-C, 2-A	(d) 1-A, 2-D	
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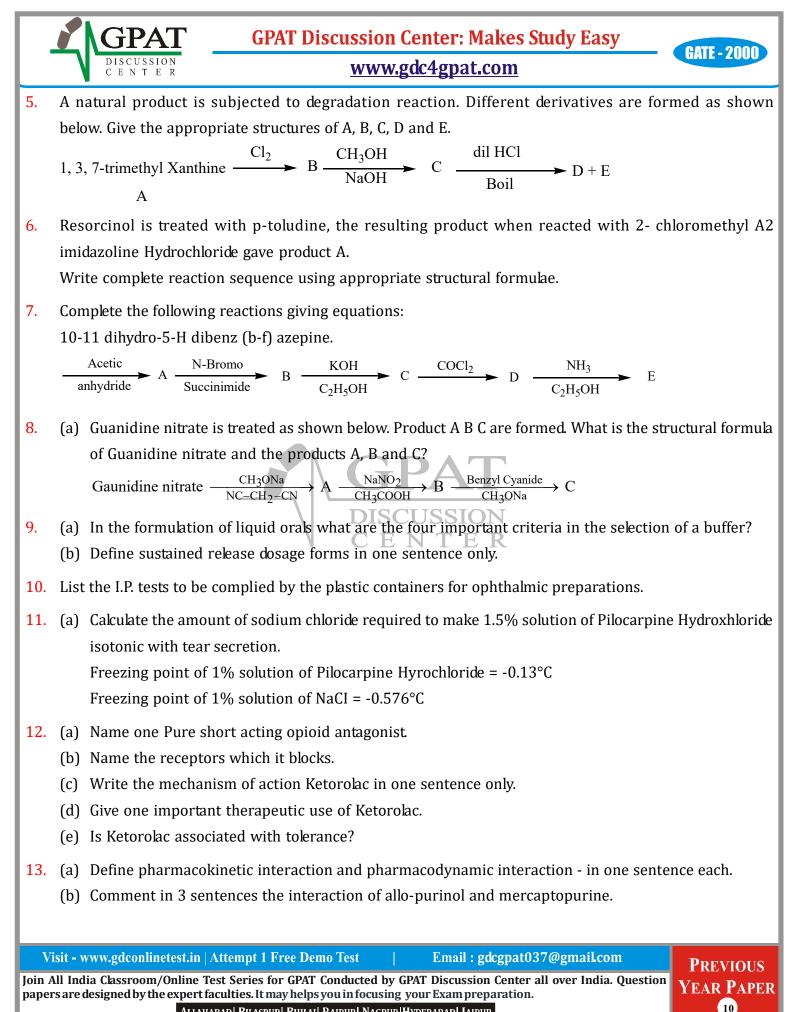
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<ul><li>39. Techniques mentioned in A to D used for the analysis of the following drugs</li><li>1. Sulphamethoxazole I.P (A) Conductometry</li></ul>							
	1. 2.	Piroxicam I.P			H.P.L.C	neuy	
	۷.	FII UXICAIII I.F				ous titration	
					Dead stop		
	(a)	1-D, 2-B	(b) 1-C, 2-D		1-C, 2-A	(d) 1-A, 2-D	
40.		tch the correct f			10,211	(u) I N, 2 D	
10.	1.	Molar absorpti		(A)	cl/A		
	2.	Frequency			A/c.l		
	2.	rrequency			l/λ		
					c/λ		
	(a)	1-B, 2-D	(b) 1-C, 2-D		1-C, 2-A	(d) 1-A, 2-D	
41.			ven with that of 1 a		- 0, - 11		
	1.	C	indard hydrogen ek		en as	(A) Zero	
	2.	Base peak in m			DA	(B) 100	
		•			TA	(C) 1	
				DIS	SCUSSI	ION (D) 10	
	(a)	1-B, 2-D	(b) 1-A, 2-B	$\mathbf{G}_{c}$	1-C, 2-A	E R <sub>(d)</sub> 1-A, 2-D	
42.	In c	lifferent samples	s of adulterated Atro	opa bellad	onna leaves,	, following unique characters are noted. Match	
	wit	h adulterants					
	1.	Idioblast obser	ved			(A) Solanum nigrum	
	2.	Lamina is dens	er Needle shaped			(B) Phytolaccaamericana	
		Crystals Anomo	ocyticstomata, Palis	ade ratio 2	2-4		
						(C) Ailanthus glandulosa	
						(D) Datura stramonium	
	(a)	1-C, 2-B	(b) 1-C, 2-D	(c)	1-C, 2-A	(d) 1-A, 2-D	
43.	Dig	italis cardenolid	es mentioned belov	v are diffe	rent hydrox	xy derivatives. Match them	
	1.	Gitoxigenin		(A)	3β, 12β, 14	4β trihydroxy cardenolide	
	2.	Digoxigenin		<b>(</b> B <b>)</b>	3β, 14β di	ihydroxy cardenolide	
				(C)	3β, 14β, 1	.6β trihydroxy cardenolide	
				(D)	3β, 12β, 6	β trihydroxycardenolide	
	(a)	1-B, 2-D	(b) 1-C, 2-D	(c)	1-C, 2-A	(d) 1-A, 2-D	
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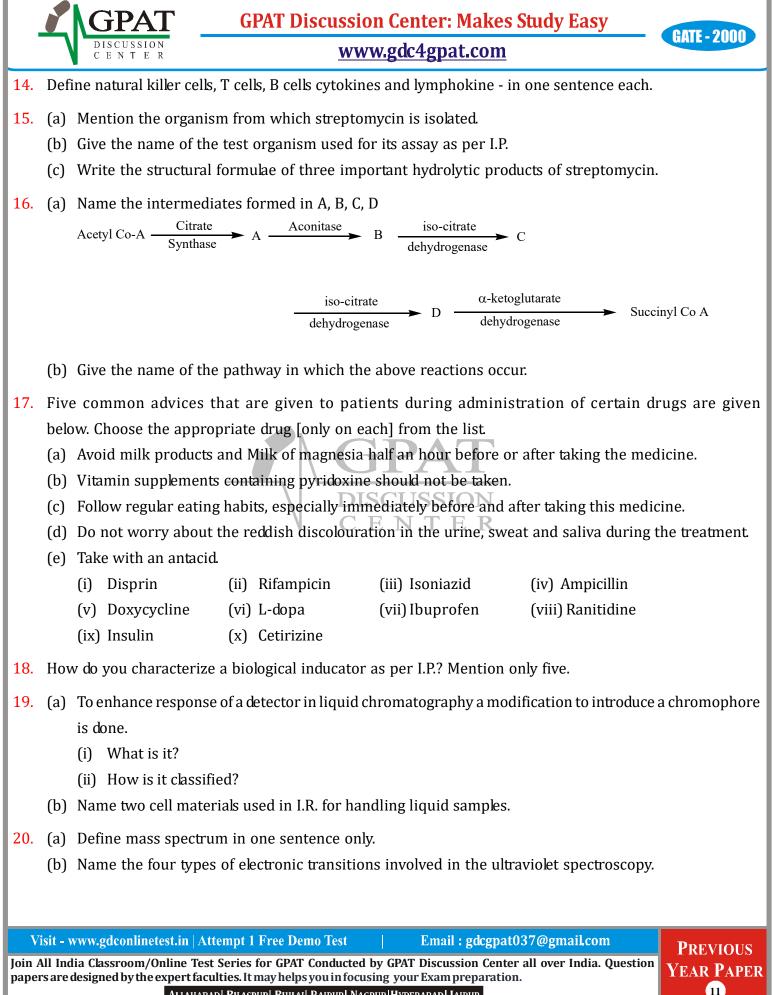
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44.	Mat		Vitamins with their		0 01		
<b>TT</b> .	1.	Riboflavin	vitaminis with then		Free radical	scavenger	
	2.	Pyridoxal				me in redox reactions	
	2.	i yiidoxai		(C)		the synthesis of rhodopsin	
						me for amino acid decarboxy	bses
	(a)	1-B, 2-D	(b) 1-C, 2-D		1-C, 2-A	(d) 1-A, 2-D	10303
45.			vith their clinical tes		1-C, 2-A	(u) 1-A, 2-D	
45.	1.	Diabetes mellitu			Docrosco in	Haamadahin layak	
			15			Haemoglobin levels	
	2. Cystic fibrosis(B) Increase in blood sugar levels					-	
					D.N.A diagno		
					Decreased le		
		1-B, 2-D	(b) 1-B, 2-C		1-C, 2-A	(d) 1-A, 2-D	
46.		_	athways of the follow	_			
	1.	Glyceraldehyde-3				synthesis pathway	
	2.	Arachidonic acio			Citric acid cy	rcle <sup>1</sup>	
				(C)			
						n synthesis pathway	
	(a)	1-B, 2-D	(b) 1-C, 2-D	(c)	1-C, 2-A	<b>R</b> (d) 1-A, 2-D	
47.	Mat	ch the following	terms with the defin	itions g	iven		
	1.	Biological half li	fe	<b>(</b> A <b>)</b>	Ratio of the	median lethal dose to the m	edian effective
					dose		
	2.	Therapeutic ind	ex	<b>(</b> B <b>)</b>	Dosage used	in the treatment	
				(C)	Elimination concentratio	n of the drug to 50% o on	f its original
				(D)	Time taken f	for a drug to be absorbed	
	(a)	1-B, 2-D	(b) 1-C, 2-D		1-C, 2-A	(d) 1-A, 2-D	
48.			vaccines. Their con				
	1.	B.C.G		•		uated Mycobacterium tuberc	ulosis
	2.	Whooping coug	h	(B)	U U	lly killed and freeze dried po	
	Ē	- F 6 - 5 4 6	, ,	(C)	•	btained from the sera of tuber	
						tella pertussis bacteria	
	(a)	1-B, 2-D	(b) 1-C, 2-D		1-C, 2-A	(d) 1-A, 2-D	
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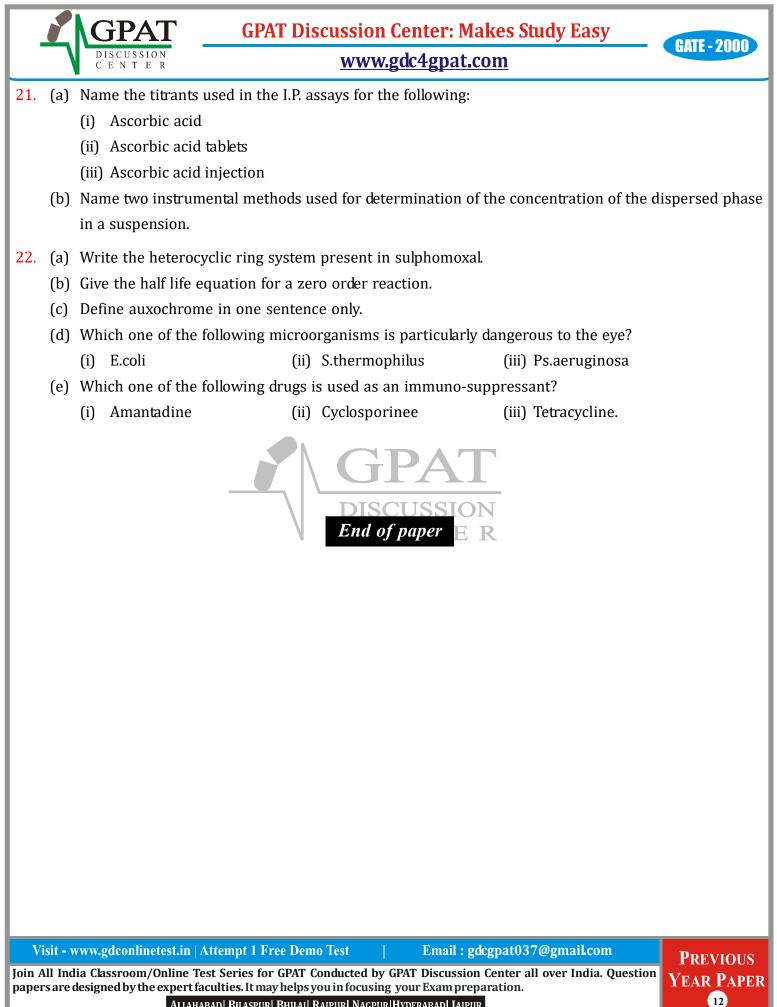
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49.	Mat	tch the following	diseases with their	causativ	ve organisms	5		
	1.	Helminthiasis		(A)	Plasmodiun	n flaciparı	IS	
	2.	Jaundice		<b>(</b> B <b>)</b>	Taenia sodi	um		
				<b>(C)</b>	Hepatitis-A-	Virus		
				(D)	Toxoplasma	i gondii		
	(a)	1-B, 2-C	(b) 1-C, 2-D	(c)	1-C, 2-A	(d)	1-A, 2-D	
50.	Giv labe		e Schedules as per D	and C a	ct 1940. Ma	tch them	with information t	o be given in the
	1.	Schedule H		(A)	For externa	al use onl	у	
	2.	Schedule G		<b>(</b> B <b>)</b>	For therape	eutic use	only	
				(C)	Caution-It : under medi	_	ous to take this provision	eparation except
				(D)	To be sold l	by retail o	n the prescription	of a R.M.P. only
	(a)	1-B, 2-D	(b) 1-C, 2-D	(c)	1-D, 2-C	(d)	1-A, 2-D	
	que	estions. Answer	sts of 20 (TWENTY) s must be given in ge and must appea	question the a	nswer book	E) <b>R</b> ark provide		
3.		Following Phyt	ological source of clov omedicinals are pres e specific part in whic (ii) Sennosid	ent in s ch they a	• •		plants. Name the (iv) Panaxadiol	biological source
4.		8	e performed in diffe chemical constituent		amples of N	atural Dr	ugs. On the basis	of given results
		-	s treated with Tinctu		na - red color	ur is obtai	ined	
			stract of the leaf is tr					wn precipitate is
	(c)	A pure orange c	oloured product is dis	solved i	n dry chlorof	form and t	reated with dry solu	ition of antimony
	Ċ		loroform - Blue or b		•		-	ý
	(d)	A solution of th	ie substance gives a j	oositive	Leibermanr	ı - Burcha	ard reaction.	
	(e)	A dilute alcohol	lic exreact is treated	with Ni	nhydrin solu	tion - Pur	ple or Pink Colour	develops.
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## ANSWER KEY GATE 2000

#### Section – A

1-b	2-a	3-c	4-a	5-a	6-c	7-a	8-d
8-d	9-a	10-a	11-b	12-c	13-a	14-b	15-d
16-b	17-d	18-b	19-с	20-с	21-b	22-d	23-с
24-a	25-d	26-a	27-d	28-b	29-d	30-с	31-b
32-a	33-a	34-c	35-c	36-a	37-a	38-d	39-a
40-a	41-b	42-a	43-c	44 <b>-</b> a	45-b	46-b	47-с
48-d	49-a	50-c					

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