

(d) Reserpic acid + Methyl alcohol + Trimethoxy cinnamaldehyde

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#### 1.2. Papaverine is

- (a) 6,7 dimethoxy -1- (3',4' dimethoxy benzyl) isoquinoline
- (b) 6,7 dimethoxy -1- (3',4' dimethyl benzyl) isoquinoline
- (c) 6,7 dimethoxy -1- (3',4' dimethoxy benzyl) quinolone
- (d) 6,7 dimethoxy -1- (3',4' dimethyl benzyl) quinolone
- 1.3. Titanium dioxide is commonly present in
  - (a) Vanishing cream (b) Sunscreen cream
  - (c) Aqueous calamine cream (d) Opthalmic cream
- 1.4. Powder ergot when treated with sodium hydroxide solution develops
  - (a) A strong odour of ammonia
- (b) A strong odour of trimethyl amine
- (c) A strong odour of indol (d) A strong odour of urea
- 1.5. Salbutamol sulphate IP is assayed by
  - (a) Direct titration with standard sodium hydroxide solution
  - (b) Direct titration with standard sodium hydrochloric acid
  - (c) A known amount of standard acid is added and excess is titrated with standard alkali
  - (d) Dissolve in glacial acetic acid and titrated with standard perchloric acid using oracet blue.

1.6. Heparin prevent blood coagulation by **DISCUSSION** 

- (a) Inhibiting thrombin catalysed conversion of fibrinogen to fibrin
- (b) Precipitate blood calcium thereby prevent coagulation reactions
- (c) Inhibiting enzyme reactions
- (d) Converting ionized calcium into chelation

### 1.7. For the registration of pharmacist in the various states, the Pharmacy Act provide for the constitution of:

- (a) Registration of tribunals
- (c) Registrar of state pharmacy council
- 1.8. Powdered digitalis is dried at temperature :
  - (a) Not exceeded  $60^{\circ}$ C (b)  $65^{\circ}$ C
- 1.9. Prazepam differ in structure from diazepam by
  - (a) N- methyl group
  - (c) N-cyclopropyl methyl group

(d) Registrar of central pharmacy council

(b) Registrar of Co-operative societies

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- (c) 75 °C (d) 100 °C
- (b) N -cyclopropyl group
- (d) N-propyl group
- 1.10. The mechanism of action of rifampicin involve
  - (a) Inhibition of bacterial DNA directed RNA polymerase
  - (b) Inhibition of mycolic acid synthesis
  - (c) Inhibition of protein synthesis
  - (d) Inhibition of transpeptidase

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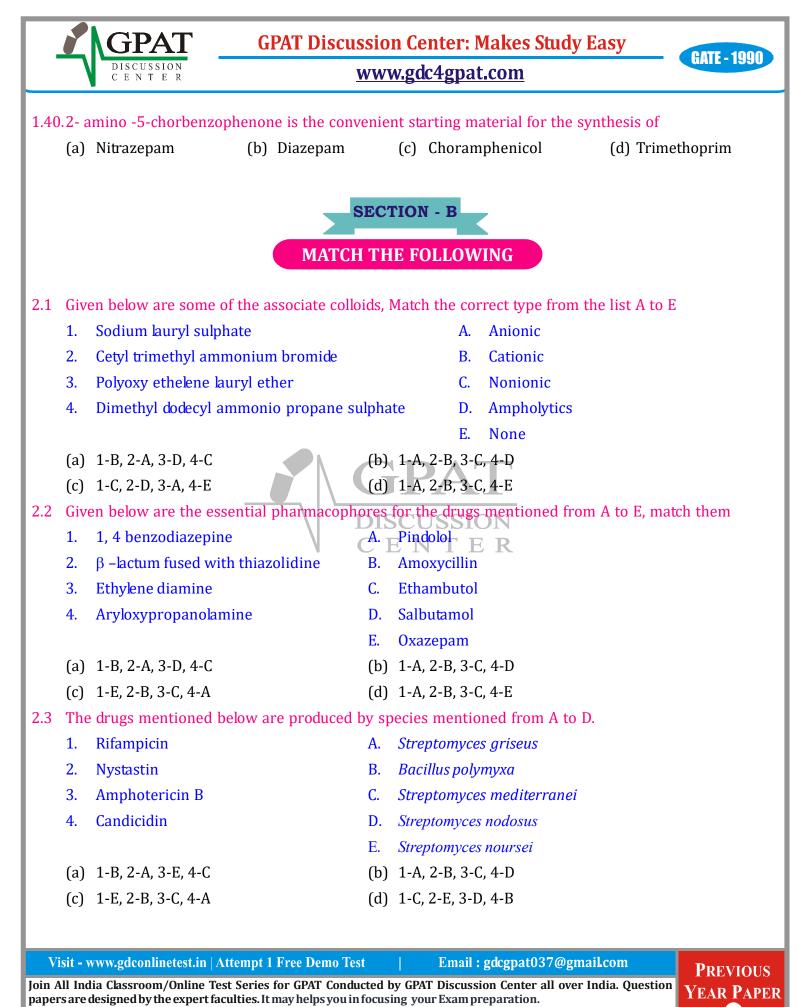
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1.11.The UV- visible region in the electromagnetic spectrum of radiation is									
(a)	(a) 200 – 400 nm (b) 300 – 660 nm								
(c)	c) 400 – 800 nm (d) 200 – 800 nm								
1.12.The	Mantoux test uses								
(a)	Old tuberculin	(b) Diptheria toxins							
(c)	Serum antigens	(d) Polysaccharide antigens							
1.13.Rot	osort is a machine used to sort out :								
(a)	Coated tablets	(b) Filled capsule							
(c)	Sealed ampoules	(d) Sealed containers							
1.14.The	volume of distribution of drugs is								
(a)	An expression of total body volume								
(b)	A measure of total fluid volume								
(c)	A relationship between the total amount	nt of drug in the body and the concentration of the drug in the							
	blood								
(d)	Proportional to bioavailability of the d								
1.15.Res	olution of a spectrophotometer is								
(a)	Its wave length range	DIS(b) Its ability to distinguish adjacent absorption bands							
(c)	Its capacity for its continuous use	C (d) Its power to gather light according to source							
1.16.Hel	operidol is a major transquillizer. It belo	ngs to the class of							
(a)	Carbamates	(b) Propanediol							
(c)	Butarophenone	(d) Phenothiazine							
1.17.Glar	ndular hair growing having a unicellular	or occasionally a short uniserate pedicel with a unicellular or							
bice	ellular terminal gland is characteristics o	f							
(a)	Senna leaves	(b) Belladonna leaves							
(c)	Datura stramonium leaves	(d) Digitalis Purpurea leaves							
1.18.Ske	letal muscle relation produced by the dr	ugis effectively antagonized by neostigmine							
(a)	Diazepam	(b) Succinylcholine							
(c)	Tubocurarine	(d) Aminophylline							
1.19.Vita	min D <sub>2</sub> is								
(a)	22,23-dihydro -5,6 cis –ergocalciferol	(b) 5,6 cis- chlorcalciferol							
(c)	7- dehydrocholesterol	(d) 21,24 – dihydro 5,6 cis ergocalciferol							
1.20.R.W	C. is used to identify the strength on an								
(a)	Antibiotics (b) Antipyretics	c) Antiseptic (d) Antiinflammatory							
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1.21. The colligative property of a solution is related	to the
(a) Total number of solute particles	(b) pH
(c) Number of ions	(d) Number of ingredients
1.22. The essential structural unit for the anthelment	tics activity of mebendazole is
(a) Benzoyl group	(b) Benzimidazole
(c) Methyl carbamates	(d) Imidazole
1.23. The anticoagulant activity of heparin sodium in	jection IP is estimated byusing :
(a) Female rats (b) Male rats	(c) Rabbits (d) Sheep
1.24. The biological half-life of a drug (first order kin	etics) is represented by
(a) 1/K (b) log K	(c) 0.693/ K (d) 2.303 / K
1.25.Infra-red spectromety is a convenient method	for understanding of
(a) Drug receptor interaction	(b) Functional group identification
(c) Physiochemical properties	(d) Conformational properties
1.26.Most commonly used amtimicrobial agent for i	ntraperitoneal dialysis fluid is
(a) Chlorocresol	(b) Benzalkonium chloride
(c) Isopropyl akohol	(d) None of the above
1.27.In the steroid nucleus, there are <b>DI</b>	SCUSSION
(a) Six chiral center with nucleus i.e. 5,8,9,10,1	B, and 14 $\mathbf{E}$ $\mathbf{R}$
(b) Seven chiral center with nucleus i.e. 3,8,9,1	10,11, 12 and 14
(c) Six chiral center with nucleus i.e. 3,8,9,10,1	1, and 12
(d) Six chiral center with nucleus i.e. 5,7,9,10,1	13, and 16
1.28. Thermolabile immiscible liquid can be separate	d by
(a) Decantation	(b) Dilution
(c) Capacity centrifugation	(d) Counter current distribution
1.29.Sulphomethoxazole is an antibacterial drug. It i	s a
(a) Short acting drug	(b) Short and intermediate acting drugs
(c) Long acting drugs	(d) Mixed acting drugs
1.30.Wave number is the number of waves	
(a) Per second (b) Per centimeter	(c) Per inch (d) Per centimeter <sup>3</sup>
1.31. The raw material for the synthesis of proprand	olol is
(a) $\alpha$ – napthylamine	(b) β naphthol
(c) $\alpha$ naphthol	(d) 1- nepthaldehyde
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1.32.All the statement mentioned below about choral hydrate is true EXCEPT that it									
(a) Produces hypnosis	(b) Produces analgesia								
(c) Produce dependence (d) Irritate gastric mucosa									
1.33.In drug and cosmetics act and rules therunder, list of substances that should be sold by retail only on									
prescription of registered medical practitioner is given in									
(a) Schedule H									
(c) Schedule X	(d) Schedule Q								
1.34. Which is ideal combination for	testing the solubility of an enteric coated capsule in alkaline medium?								
(a) Sodium bicarbobnate + Po	tassium hydroxide + Pepsin								
(b) Sodium bicarbobnate + So	dium tauroglycocholate + Papain								
(c) Sodium bicarbobnate + Pa	ncreatin + Sodium tauroglycocholate								
(d) Sodium bicarbobnate + Bil	lirubin								
1.35.0xazepam is used in relief of p	sychoneurosis. It has lower incidents of side effects and reduced toxicity								
due to									
(a) N-demethylation	(b) Ring oxidation								
(c) Aromatic hydroxylation	(d) Conjugation of 3- hydroxyl group								
1.36. The rate of diffusion of drug ac	1.36. The rate of diffusion of drug across biological membrane is ON								
(a) Directly proportional to th	e concentration gradients $\mathbf{E} \ \mathbf{R}$								
(b) Dependant on route of adr	ninistration								
(c) Indirectly proportional to	nembrane thickness								
(d) None of the above									
1.37.In sugar coating of tablets subc	pating is done								
(a) To prevent moisture depos	ition								
(b) To round the edge and bui	d tablet size								
(c) To smoothen the surface									
(d) To prevent the tablet from	breaking due to vibration								
1.38.0ne of the detectors used in ga	s chromatography								
(a) Bolometer	(b) Thermal conductivity detector								
(c) Golay detectors	(c) Golay detectors (d) Giger Counter								
1.39.Alkloids in chinchona bark are	1.39.Alkloids in chinchona bark are detected by								
(a) Iodine test	(b) Thalleioquine test								
(c) Liebermann –Burchard tes	st (d) Nessler's test								
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.4	Given below are some im	portant drugs. find out the correct constitution listed A to E derived from ther
	1. Cephalis ipecacunha	A. Cineole
	2. Papaver Somniferous	B. Safrole and myresticin
	3. Cascara sagruda	C. Morphine
	4. Myristica fragnans	D. Antraquinone glycoside
		E. Emetine
	(a) 1-E, 2-C, 3-D, 4-B	(b) 1-A, 2-B, 3-C, 4-D
	(c) 1-E, 2-B, 3-C, 4-A	(d) 1-C, 2-E, 3-B, 4-D
2.5	The side chain responsib	le for the biological activity of drug listed from A to E are given below.match the
	correctly	
	1. $-NH - CH - CH_2$	$2^{}$ CH <sub>2</sub> N(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> A. Amodiaquine
	 CH <sub>3</sub>	
	$2CH_2 - CH_2 - SO_2 - CH_2 - SO_2 - SO_$	H <sub>2</sub> -CH <sub>2</sub> B. Tinidazole
	3. $-0-CH_2 - CH_2 - N(CH_2)$	
	4. $-NH - C_6H_3(OH) CH_3$	
	6 3 3	DISCUSSION Chlorpromazine
	(a) 1-C, 2-B, 3-D, 4-A	<b>CENTER</b> (b) 1-A, 2-B, 3-C, 4-D
	(c) 1-E, 2-B, 3-C, 4-A	(d) 1-C, 2-E, 3-B, 4-A
2.6	The following form under	r schedule A of the drug and cosmetics act utilized for applying for licenses list
	A to E, match them	
	1. Form 8	A. Application to import drugs for personal use
	2. Form 12 A	B. Application for grant of license to sell, stock or distribute drug
	3. Form 19	C. Application to import biological products
	4. Form 24 C	D. Application to manufacture homeopathy drugs
		E. Application to important drugs for research purposes
	(a) 1-B, 2-A, 3-D, 4-C	(b) 1-A, 2-B, 3-C, 4-D
	(c) 1-C, 2-A, 3-B, 4-D	(d) 1-C, 2-E, 3-B, 4-D
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2.7 Listed below are the instruments used for measuring the factors given in A to E. match them						
	1. Rotational viscometer	A. Shear rate	A. Shear rate			
	2. Penetrometer	B. Melting point	B. Melting point			
	3. Hansen-paddle equipme	ent C. For consistency and hardness of	of relatively rigid			
	4. Glass electrode semisoli	ds D. Dissolution of granules and tab	lets			
		E. pH indicating electrode				
	(a) 1-B, 2-A, 3-D, 4-C	(b) 1-A, 2-C, 3-D, 4-E				
	(c) 1-E, 2-B, 3-C, 4-A	(d) 1-C, 2-E, 3-B, 4-D				
2.8	Symptoms for the following	ng diseases are indicated from A to E. match the	em			
	1. Cushing's syndrome	A. Hyperthyrodism				
	2. Addison's disease	B. Inflammatory bowel				
	3. Grave's disease	C. Decreases production of cortis	ol			
	4. Crohn's disease	D. Increased production of cortis	ol			
	(a) 1-B, 2-A, 3-D, 4-C	(b) 1-A, 2-B, 3-C, 4-D				
	(c) 1-E, 2-C, 3-A, 4-B	(d) 1-C, 2-A, 3-B, 4-D				
2.9		mentioned in A to E for the following defects d	uring the film coating of tablets,			
	match them DISCUSSION					
	1. Chipping	A. Poor spreading of sprayed droplets				
	2. Cracking	B. Overheating during spraying				
	3. Orange peel	C. High internal stresses in film				
	4. Blistering	D. Excess coating process				
		E. Precipitate of polymer due to high temperat	ureor poor solvent			
	(a) 1-B, 2-A, 3-D, 4-C (c) 1-E, 2-B, 3-C, 4-A	(b) 1-A, 2-B, 3-C, 4-D				
210		ity listed under A to E for following drugs	(d) 1-D, 2-C, 3-A, 4-B			
2.10	1. 0-2-naphthyl- m, N-dim		A. Antineoplastic			
		vdro-1-methyl-2[2-(2-thienyl)vinyl]Pyrimidine	B. Anthelmentic			
		ophenyl)-6-ethylpyrimidine	C. Antimalarial			
	4. p-(di-2-choroethyl) am		D. Antifungal			
	(a) 1-D, 2-B, 3-C, 4-A	(b) 1-A, 2-B, 3-C, 4-D				
	(c) 1-D, 2-B, 3-C, 4-A	(d) 1-C, 2-A, 3-B, 4-D				

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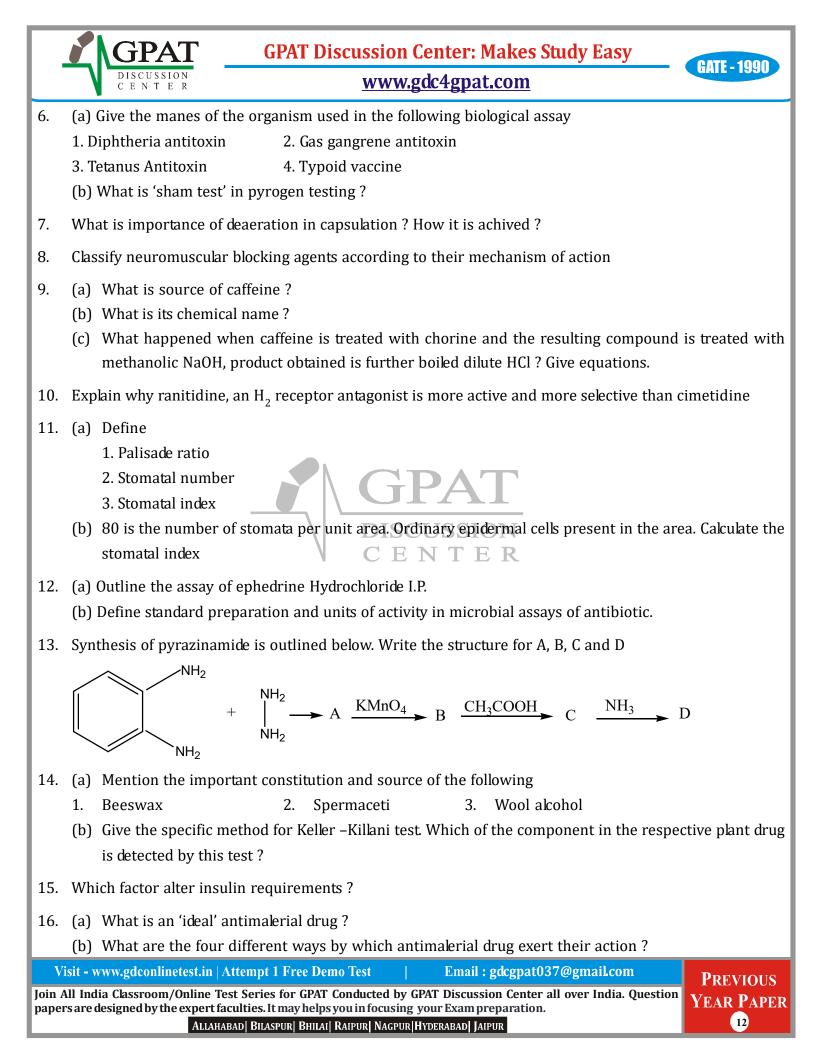
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2.11 Match the correct method	of sterilization listed A to E for the following drugs
1. Tetracycline injection	A. Sterilized by dry heat
2. Insulin injection	B. Sterilized by heating with bactericide
3. Quinine injection	C. Sterilized by bacterial filtration
4. morphine injection	D. Sterilized by aseptic method
	E. Sterilized by heating in an autoclave
(a) 1-B, 2-A, 3-D, 4-C	(b) 1-A, 2-B, 3-C, 4-D
(c) 1-E, 2-B, 3-C, 4-A	(d) 1-D, 2-C, 3-E, 4-B
2.12 Given below are the recep	tors and their antagonists. match them correctly
1. GABA receptors	A. Buprenorphine
2. Histmaine GH <sub>2</sub> receptor	s B. Diazepam
3. Opiate receptors	C. Ranitidine
4. β-adernergic receptors	D. Nifedipine
	E. Atenolol
(a) 1-B, 2-A, 3-D, 4-C	(b) 1-B, 2-C, 3-A, 4-E
(c) 1-E, 2-B, 3-C, 4-A	(d) 1-C, 2-E, 3-B, 4-D
2.13 The names of equations for	or various expression are given below. match themCorrectly
1. $i_d = 607 n C D^{1/2} m^{2/3} t^{1/6}$	$A$ . Mark-Houwink $T \in \mathbf{R}$
2. $V = \frac{\pi r^4 t \Delta P}{8 \ln t}$	B. Likovic
3. $[n] = kM_{a}$	C. Poiseuille
4. $T_g = (0.5 - 0.67) T_m$	D. Boyer-Beaman
5	E. Beer-lambert
(a) 1-B, 2-A, 3-D, 4-C	(b) 1-A, 2-B, 3-C, 4-D
(c) 1-B, 2-C, 3-A, 4-D	(d) 1-C, 2-A, 3-B, 4-D
2.14 The various equipments a	re used for size reduction of material of different nature. Match them correctly
1. Rod mill	A. Sticky material
2. Fluid energy mill	B. Abrasive material
3. Cutting mill	C. Thermolabile material
4. Revolving mill	D. Fibrous material
	E. Thermostable material
(a) 1-B, 2-A, 3-D, 4-C	(b) 1-A, 2-B, 3-C, 4-D
(c) 1-A, 2-C, 3-D, 4-B	(d) 1-C, 2-E, 3-B, 4-D
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2.15 Match the drugs in A to I	E which inhibit the following enzymes
1. Carbonic anhydrase	A. Dicloxacillin
2. Dihydrofolatesynthtas	e B. Physostigmine
3. $\beta$ –lactumase	C. Acetazolamide
4. Acetykholinesterase	D. Sulphanilamide
	E. Ibuprofen
(a) 1-B, 2-A, 3-D, 4-C	(b) 1-A, 2-B, 3-C, 4-D
(c) 1-E, 2-B, 3-C, 4-A	(d) 1-C, 2-D, 3-A, 4-B
2.16 Given below are some of	the important drugs. appropriate tests are listed in A to E. match them correctly
1. Cardiac glycoside	A. p-dimethylaminobenzaldehyde
2. Ergot alkaloids	B. Fluorescence test
3. Quinidine sulphate	C. Liebermann Burchard test
4. Camphor	D. 2,4 dinitrophenyl hydrazine
	E. Benedict's test
(a) 1-B, 2-A, 3-D, 4-C	(b) 1-A, 2-B, 3-C, 4-D
(c)1-E, 2-A, 3-B, 4-D	(d) 1-C, 2-E, 3-B, 4-D
2.17 The undesirable effects o	f the antibiotics are listed in A to E match them
1. Tetracycline	A. Gray-baby syndrome E R
2. Strptomycin	B. Discolouration of teech
3. Chloramphenicol	C. Jaundice
4. Rifampicin	D. Obesity
	E. Ototoxicity
(a) 1-B, 2-E, 3-A, 4-C	(b) 1-A, 2-B, 3-C, 4-D
(c) 1-E, 2-B, 3-C, 4-A	(d) 1-C, 2-E, 3-B, 4-D
2.18 Choose the most approp	riate strating material listed in A to E for the synthesis of the following
1. Riboflavin	A. p-antisidine
2. Progesterone	B. 3,4 diemthyl aniline and D- ribose
3. Isoniazide	C. Diosgenin
4. Indomethacin	D. γ- picoline
	E. Lumiflavine
(a) 1-B, 2-C, 3-D, 4-A	(b) 1-A, 2-B, 3-C, 4-D
(c) 1-E, 2-B, 3-C, 4-A	(d) 1-C, 2-E, 3-B, 4-D
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2.19 Absorption frequency (	cm <sup>-1</sup> ) in IR spectroscopy for carbonyl group are given in A to E match them							
1. –COCl	A. 1720							
O II								
2Ö-C	B. 1735							
3. –СНО	C. 1750							
4. – CONH <sub>2</sub>	D. 1776							
	E. 1812							
(a) 1-B, 2-A, 3-D, 4-C	(b) 1-A, 2-B, 3-C, 4-D							
(c) 1-D, 2-E, 3-B, 4-A	(d) 1-C, 2-E, 3-B, 4-D							
2.20 Following are the prefix	es used in nomenclature which signifies as indicated from A to E. match them							
1. Levo	A. not all the same atom							
2. Ortho	B. Rotate the plain polarized light to the left							
3. Poly	C. Made up of many group							
4. Hetero	D. Signifies the 1,2 position in benzene ring							
	E. Three – configuration							
(a) 1-B, 2-A, 3-D, 4-C	(b) 1-A, 2-B, 3-C, 4-D							
(c) 1-E, 2-B, 3-C, 4-A	(d) 1-B, 2-D, 3-C, 4-A SION							
	V CENTER							
	PART - B							
	(Marks : 120)							
N.B. 1. Answer any twent	y questions.							
	lestions are attempted, only the first 20 will be considered.							
3. All questions carry	y equal marks.							
3. Classify emulsifying age	ents in accordance with the type of film they form at theinterface. Give 2 example							
for each								
4. Define creaming, invers	ion, sedimentation – instability of emulsions.							
Give theprinciple and p	rocedure for the assay of Glyceryl trinitrate tablets I.P.							
5. (a) What is the source of	of squill and Indian squill ?							
	Form the calcium oxalate occure in squill ?							
(c) Give the names of the adulterants of belladonna								
(d) What is the difference between hyoscamine and atropine ?								
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17.	(a) Name the different components of the aerosol package								
	(b) What are different objectives behind coating of tablets								
18.	Give the structural activity relationship of the following drug								
	(a) Promethazine (b) Chorpromazine (c) Thioridazine (d) Trifluperazine								
19.	What is role of plastisizers in tablet coating ?								
20.	Define pM indiacators. Name the important pM indicators.								
21.	Give synthesis of the following drugs.								
	(a) Meprobamate (b) Metronidazole (c) Chorpheniramine								
22.	What are different method of locating end point in potentiometric titrations ?								
23.	(a) Define:								
	1.Hypotonic2.Hypertonic3.Isotonic								
	(b) Calculate the amount of sodium chloride required to made 100 ml. of a 2% solution of the given local								
	anaesthetic isotonic with blood serum. Molecular wt of local anaesthetic = 339.5, Molar concentratio	n							
	of Blood = 0.030.								
24.	(a) What is drug regimen in combination theraphy of leprosy ?								
	(b) Why chemotheraphy leprosy is hampered $\stackrel{?}{E}$ N T E R								
25.	Give reasons for the following :	1.							
	(a) In the determination of Ca <sup>++</sup> ions by complexometry using Erichrome black T as indicated a litt magnesium EDTA is added	le							
	(b) Tetrabutyl ammonium hydroxide is the preferred titration in the titration of acidic substance b	)V							
	nonaquaous method.	5							
	(c) Ammonia and EDTA forms complexes with metal ions like Cu <sup>++</sup> , Ag <sup>+</sup> butammonia is not used as	а							
	titrant in complexometry.								
26.	Write the merits and demerits of anabolic streroids. Mention the names of two official preparations.								
27.	What happens when ?, Give equations								
	(a) Sodium salt of tolune p- sulphonamide is condensed with n-butyl isocynate.								
	(b) Benzhydryl bromide is treated with 2-dimethyl amino ethanol in presence of alkali.								
	(c) m-nitrobenzaldehyde is treated with butyric anhydride, the resulting compound is reduced and iodinate	d.							
	End of paper								
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### **ANSWER KEY GATE 1990**

#### Section - A

1	c	11	d	21	a	31	с
2	а	12	а	22	с	32	b
3	b	13	b	23	d	33	а
4	b	14	с	24	с	34	с
5	d	15	b	25	b	35	d
6	а	16	с	26	d	36	а
7	с	17	d	27	а	37	b
8	а	18	b	28	а	38	b
9	с	19	а	29	а	39	b
10	а	20	d	30	b	40	b

### Section – B

				DAT			
2.1	b	2.2	C .	2.3	L d	2.4	а
2.5	а	2.6	С	2.7	b	2.8	С
2.9	d	2.10	a	2.11	<b>d</b>	2.12	b
2.13	С	2.14	С	2.15	d	2.16	С
2.17	а	2.18	а	2.19	C	2.20	d

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