

**GATE - 2002** 

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### PHARMACEUTICAL SCIENCE

Time: 3 hours Maximum Marks: 200

### Read the following instruction carefully.

- 1. All answer must be written in ENGLISH.
- 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. Answer Section A only ont he special machine-gradable OBJECTIVE RESPONSE SHEET (ORS). Questions in Section A will not be gradeed if answered elsewhere.
- 5. Write your name, registration number and the name of the center at the specified locations on the right half of the ORS for Section A .
- 6. Using a HB pencil, darken the appropriate bubble under each digit of your registration number.
- 7. Questions in Section A are to be answered by darkening the appropriate bubble (marked A, B, C or D) using a HB pencil against the question number on the left hand side of the ORS. In case, you wish to change an answer, erase the old answer completely using a good sort eraser.
- 8. The ORS will be collected after 120 minutes from the start of the examination. In case you finish Section A before the expiry of 120 minutes, you may start answering Section B.
- 9. There will be NEGATIVE marking in Section A. for each wrong answer to 1-and 2- mark sub-questions, 0.25 and 0.5 marks will be deducted respectively. More than one answer marked against a question will be deemed as an incorrect response and will be negatively marked.
- 10. Answer questions in Section B in the answer book. Section B consists of TWENTY questions FIVE marks each. ANY FIFTEN out of them have to answered. If more number of questions are attempted, score off the answers not to be evaluated, else only the first fifteen unscored answered will be considered.
- 11. Answer for each question in Section B should be started on a fresh page. Question numbers must be written legibly and correctly in the answer book.
- 12. In all 5 mark questions (Section B), clearly show the important steps in your answers. These intermediate steps will carry partial credit.

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PY-1	.The question contains of T	wenty Five sub question(1.1-	1.25	) of ONE mark each	ı. For	each of these sub-question,
	four possible answers(A,B,C	Cand D) are given, out of whi	ch on	e is correct. Answe	r eaci	h sub question by darkening
	the appropriate bubble on	the OBJECTIVE RESPONSE	SHEE	ET(ORS) using a so	ft HB	pencil. Do not use the ORS
	for any rough work. You n	nay like to use the Answer E	Book .	for any rough woi	k, if	needed.
1.1	Volatile oil from Lemon p	eels contains d- limonine w	hich	is		
	(a) Phenyl propane deri	vative	(b)	Bicyclic Monoter	pene	e derivative
	(c) Monocyclic Monoter	e derivative				
1.2	In case of Digitalis purpur	rea, the cardiac activity is m	axim	num with		
	(a) Odoroside-H	(b) Digoxin	(c)	Digitoxin	(d)	Purpurea glycoside-A
1.3	Dragendorff's reagent do	es not give positive test wi	th			
	(a) Emetine	(b) Morphine	(c)	Caffeine	(d)	Codeine
1.4	The instrument used to n	neasure particle volume is				
	(a) Coulter Counter		(b)	Microscope		
	(c) Hempel Burette	DISC	O(2)	Helium Densiton	neter	•
1.5	The purpose of seal coati	ng in sugar coating proces	s for	tablets is		
	(a) To prevent moisture	penetration into the tablet	core			
		nd build up the tablet weig	ht			
	(c) To impart the desired					
	(d) To give lusture to the					
1.6	•	easing the solubility of weal			polar	molecules by the addition
		in which the drug has good		,	6.13	,
4 =	(a) Complexation	(b) Cosolvancy	(c)	Solubilization	(d)	Hydrotrophy
1.7	HLB system is used to cla	•	( )	A	<i>(</i> 1)	
1.0	(a) Surfactants	(b) Preservatives	. ,	Antioxidants	(d)	Sequestering agents
1.8		cool place" as per IP, mean		C. I		10. C
	(a) Store at room tempe			Store between 2°	' to 8	6° C
1.0	(c) Store at any tempera			Store at 0° C	11.	
1.9	·	ombined effects of shock ar			_	_
	(a) Hardness tester			Disintegration to	est ap	oparams
	(c) Friabilator		(a)	Screw Gauge		

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1.10	Ion	exchange capacity of a r	esin is dependent on							
	(a)	The total molecular weig	tht of the resin	(b)	The total number of ion	active	e groups			
	(c)	Length of ion exchange	resin	(d)	) Solubility of the ion exchange resins					
1.11	In n	nass spectra, the most in	tense peak is the							
	(a)	Base peak		(b)	Metastable ion peak					
	(c)	Fragment ion peak		(d)	Rearrangement ion pea	k				
1.12	Che	mical shift is expressed i	n one of the following u	nits						
	(a)	cm <sup>-1</sup> (b) A	mperes	(c)	Parts per million	(d)	mm/ml			
1.13	Xen	on arc lamp is the source	e of light in							
	(a)	Spectroflurimeter		(b)	IR Spectrophotometer					
	(c)	Flame photometer		(d)	Calorimeter					
1.14	Whi	ch of the following pairs	has an interaction bene	ficia	l for routine clinical use					
	(a)	Pseudoephedrine & Alui	ninium hydroxide gel	(b)	Tetracyclines and Milk of	of mag	nesia			
	(c)	MAO inhibitors and Tyr	amine	(d)	Choramphenicol and To	lbutan	nide			
1.15		surement of which of th		onst	ituents of human plasma	is of g	great value in the			
	diffe	erential diagnosis of rhe	umatoid diseases		7.1					
	(a)	Rheumatoid factor and	immunoglobulin GSC1	(þ)	Rheumatoid factor and	C-reac	tive Protein			
	(c)	HL-A antigen and C-read	ctive protein CE1	(d)	Immunoglobulin and br	adykir	nin			
1.16	Wh	ch of the following is val	id comparison of live at	tenu	ated vaccines versus kilk	ed inac	ctivated vaccines			
	(a)	Hypersensitivity reactio	ns are uncommon amor	ng in	activated vaccines					
	(b)	Live attenuated vaccine	s are more effective in c	hildr	en					
	(c)	Live attenuated vaccine	s are not suitable for peo	diatr	ics use					
	(d)	Replication of the organ	nisms in a live attenuate	ed va	accine increases the stin	nulatio	n of the immune			
		system there by requiri	ng a lower dose							
1.17	An a	antineoplastic agent acti	ng by folate antagonism a	and l	naving a pteridine ring is					
	(a)	Trimethoprim (b	) Mercaptopurine	(c)	Methotraxate (d	d) Foli	ic acid			
1.18	One	of the following drugs h	as 1,4-dihydropyridine	struc	ture, tertiary amino grou	ıp in tl	he side chain and			
	Ca++	channel antagonist action	on							
	(a)	Nitrodipine (b	o) Nicardipine	(c)	Verapamil (d	d) Cap	otopril			
1.19	IUP	AC name for one of t	he steroidal anti-infl	amn	natory agent is $9-\alpha$ -F	luoro-	11 $\beta$ , 16 $\alpha$ , 17 $\alpha$ ,			
	21-	tetrahydroxy-1,4-Pregna	diene-3,20-dione							
	(a)	Predenisolone (b	o) Betamethasone	(c)	Triamicinolone (d	d) Dex	kamethasone			

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1.20	CLO	FAZIMINE belongs to a	a class of						
	(a)	Rhiminophenazines			(b)	Aryl piperazines			
	(c)	Phenothiazones			(d)	Benzyl piperazines			
1.21	One	of the drug is odd one	in terms of it	s biological ac	tior	1			
	(a)	Diethyl Stilbesterol			(b)	Tamoxifen			
	(c)	Ethynyl Estradiol			(d)	Mestranol			
1.22	The	key intermediates for	the synthesis	of TIMOLOL	are				
	(a)	3,4-dichloro-1,2,5-thia	adiazole and m	norpholine	(b)	3,4-dichloro-1,2,5-thia	adiazole and pip	erazine	
	(c)	3,4-dibromo-1,2,5-thi	adiazole and p	oiperazine	(d)	3-chloro-1,2,5-thiadia	zole and morph	oline	
1.23	One	of the following drug in	nterrupts the s	synthesis of th	iyro	id hormones bypreven	ting iodine inco	rporation	
	into	the tyrosyl residue of	thyroglobulin	l					
	(a)	Levothyroxine			(b)	Liothyronine			
	(c)	Propyl thiouracil			(d)	Triodo thyronine			
1.24	Mac	crolide antibiotics exert	t their action l	ру					
	(a)	Inhibiting transcriptio	on	CD	(b)	Altering the genetic co	ode		
	(c)	Terminating protein s	ynthesis pren	naturely	(d)	Post-translational mod	lification		
1.25	One	of the following is sele	ective β <sub>2</sub> -stimu	ılanıt ISCU	JSS	SION			
	(a)	Caffeine	(b) Salbutam	ol C E N	(c)	Propranolol	(d) Betahistin	e	
PY-2	. <i>Th</i>	ne question contains	of Twenty F	ive sub ques	tio	n(2.1-2.25) of TWO	mark each. Fo	r each of	
		se sub-question, four լ	_	_				_	
	eac	h sub-question by dai	rkening the a	ippropriate b	ubl	ole on the OBJECTIVE	RESPONSE SH	EET(ORS)	
	usir	ng a soft HB pencil. Do	not use the (	ORS for any r	oug	ıh work. You may like	to use the Ans	wer Book	
	for	any rough work,if nee	eded.						
2.1	Case	caroside A is an examp	ole of						
	(a)	O-Glycoside			(b)	C-Glycoside			
	(c)	N-and-S-Glycoside			(d)	O-and-C-Glycoside			
2.2	Pred	cursor of the biosynthe	esis of Tropan	e group of all	kalo	ids is			
	(a)	Leucine	(b) Lysine		(c)	Ornithine	(d) Tyrosine		
2.3	The	extraction of steroidal	l saponins on	commercial s	cale	is from			
	(a)	Dioscorea	(b) Digitails		(c)	Datura	(d) Trigonella		
2.4	Rau	walfia sepentina Benth	ı., can be distir	nguished from	oth	ner adulterants/ substi	tutes of Rauwol	fia spp. by	
	(a)	Presence of starch gra	ains		(b)	Presence of calcium o	xalate crystals		
	(c)	Presence of trichomes	S		(d)	Presence of sclereids			
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2.5	Schedule	FF	contains	the	list	of	the	follo	owing
	Delleadie		COIIWIIID		1100	•		1011	, ,, ,,,,

- (a) Drug which can be marketed under generic names only
- (b) Drug which are habit forming
- (c) Standards for ophthalmic preparation
- (d) Drug which are exempt from certain provisions applicable to manufacturing
- 2.6 One of the following equations is used to predict the stability of a drug product at room temperature from experiments at accelerated temperature
  - (a) Stokes equation

(b) Arrheniuns equation

(c) Yong equation

- (d) Michaelis-Menten equation
- 2.7 One of the following apparatus is used to determine the particle size by the gravity sedimentation method
  - (a) Pkynometer

(b) Ostwald viscometer

(c) Andreasen apparatus

- (d) Friabilator
- 2.8 One of the following mills works on both the principles of attrition and impact
  - (a) Cutter mill
- (b) Hammer mill
- (c) Roller mill
- (d) Fluid energy mill

- 2.9 A commonly used antioxidant for oil system is
  - (a) Butylated hydroxyl toluene

(b) Ascorbic acid

(c) Sodium metabisulfite

- (d) Thioglycol
- 2.10 In Digitalis glycoside  $C_{17}$  position of the steroidal ring is substituted by
  - (a)  $\alpha$ - $\beta$  unsaturated five membered lactone ring
- (b)  $\alpha$ - $\beta$  unsaturated six membered lactone ring
- (c)  $\alpha$ - $\beta$  unsaturated six membered ring
- (d)  $\alpha$ - $\beta$  unsaturated five membered lactam ring
- 2.11 Metoprolol is sometimes preferred to Propranolol because
  - (a) It has both  $\alpha$  and  $\beta$  adrenergic blockade
  - (b) It has both vasodilator properties and betaadrenergic blocker
  - (c) It is a  $\beta_1$  selective antagonist and it does not enter the brain
  - (d) It is a  $\beta_2$  selective antagonist
- 2.12 The major product formed by the condensation of 2-trifluorl methyl phenothiazine with sodamide and 1-(3chlororopy1-4-methyl piperazine)
  - (a) Trifluoperidol

(b) Trifluoperazine

(c) Trifluopromazine

- (d) Trifluophenothiazine
- 2.13 One of the following statements is characteristic for natural estrogens
  - (a) Aromatic ring with phenolic group and an estrange nucleus
  - (b) Aromatic ring with an alcoholic group and a pregnant nucleus
  - (c) Reduced ring system belonging to the class estrange
  - (d) Reduced ring system belonging to the class pregnane

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2.14	One	of the following opioi	d peptides is released from	pro	-opio melanocortin (P	OMC)
	(a)	Somatostatin	(b) Beta-endorphin	(c)	Leu-enkephalin	(d) Dynorphin
2.15	The	ultra short-acting barl	oiturates have brief duratio	n of	action due to	
	(a)	High degree of bindin	g to plasma protein			
	(b)	Low lipid solubility re	sulting in a minimal conce	ntrat	ion in the brain	
	(c)	Metabolism is slow in	the liver			
	(d)	Rapid rate of redistrib	oution from the brain due t	o its	high liposolubility	
2.16	Der	ivasation is done in GC				
	(a)	To convert a less pola	r compound to a more pol	ar co	ompound	
	(b)	To make the compour	nd non-volatile			
	(c)	To convert a polar con	mpound to a more polar co	omp	ound	
	(d)	To liquefy a solid				
2.17	Qua	litative analysis by pol	arography is based on			
	(a)	Electrode potential		(b)	Half wave potential	
	` '	Migration current		<b>)</b> '/	Limiting current	
2.18	The	stationary phase used	l in gel permeation chroma	atogi	caphy is	
	. ,	Alumina	DISCI		Charcoal	
	. ,	Squalene	CEN	(d)	Styrene divinyl benzy	l co-polymer
2.19		onductivity cell consists				
		Two platinised-platinu	•		A platinum-calomel el	-
		A platinum-tungsten e	-	(d)	A glass-calomel electro	ode system
2.20	_	pical example of exoto			m .	( l) m l
0.04	. ,	Lipid-A	(b) Cytokine	(c)	Tetanospasmin	(d) Tuberculin
2.21	•		a patient suffering from se	•		
		_	rape like odour and it was s			. Identify the organism
		Pseudomonas fluoresc	ens	` ,	Salmonella typhi	
າ າາ		Staphylococcus	O if the pill of the infected	. ,	Pseudomonas aerugin	
2.22	will		9. if the pH of the infected	115 C	5.9, the fraction of the	arug in the lonized lorn.
		1%	(b) 10%	(c)	90%	(d) 99%
2 22	. ,		n the treatment of both into	. ,		
2.23		ly is	if the deadness of both mo	CSCII	iai and cada intestinai	symptoms of amocolasis
		Diloxanide and lodoqu	inol	(h)	Paramomycin	
	. ,	Metronidazole and Di		. ,	Chloroquine alone	
<b>1</b> 7;			nnt 1 Free Demo Test	<u> </u>		nom



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#### 2.24 The drug NIFEDIPINE can be synthesized from

- (a) O-nitro benzaldehyde methyl acetoacetate and ammonia
- (b) P-nitro benzaldehyde methyl acetoacetate and ammonia
- (c) O-nitro benzaldehyde ethyl acetoacetate and methylamine
- (d) P-nitro benzaldehyde methyl acetoacetate and methylamine

# 2.25 Methyl malonyl CoA mutase which catalyzes the conversion of propionyl CoA to succinyl utilizes the prosthetic group derived from

- (a) Cynocobalamine
- (b) Pyridoxine
- (c) Thiamine
- (d) Nicotinamide



This section consists of TWENTY questions of FIVE marks each. Attempt ANY FIFTEEN questions. Answers must be given in the answer book provided. Answer for each question must start on a fresh page and must appear at one place only. (Answers to all parts of a question must appear together).

#### **PY-3** Write your inferences in one or two words only

- (a) Two different samples of aloes are dissolved separately in water. 2 ml of the above solutions are treated separately with 2 ml Bromine water CLISSION
  - (i) A pale yellow precipitate with violet supernatant liquid is seen
  - (ii) A pale yellow precipitate with no violet supernatant liquid is seen
- (b) Acrude drug sample consisting of dried leaflets gave a positive Borntrager's test
- (c) When an-air dried latex is dissolved in water and treated with chloride solution-a red color develops
- (d) Draw the structural formula of RESERPINE

# **PY-4** In a comparative chemical study of Morphine, Codeine and Thebaine, the following observation are noted. Give your inferences

- (a) Morphine forms dibenzoate, Codeine forms a monobenzoate
- (b) Morphine gives a positive ferric chloride test and other do not
- (c) Codeine give one molecule of CH<sub>3</sub> I when heated with HI where as Thebaine gives two molecule of CH<sub>3</sub>I
- (d) Morphine of treatment with halogen acid gives a monohalogen derivative
- (e) All the three alkaloids combine with CH<sub>3</sub>I to form methiodide

### PY-5 With respect to Ceylon Cinnamon, Give

- (a) Botanical source with family
- (b) Main active constituent with its chemical nature
- (c) Chemical structure of the main active constituent

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PY.	-6 Assign	the	bands	in 1	the	IR s	pectrum	for a	ppro	priate	grou	os give	n below:

>C=O, Aromatic compound, -OH, >C=<, -C=C-

(a) 3700-3500cm<sup>-1</sup>

(b) 1740-1720cm<sup>-1</sup>

(c) 1667-1640cm<sup>-1</sup>

(d) 2260-2100cm<sup>-1</sup>

(e) 900-675cm<sup>-1</sup>

#### PY-7 In the microbiological assay of ERYTROMYCIN, IP

(a) Name the organism used

(b) Name the solvent used

(c) What is the buffer used

- (d) In what pH is the experiment done
- (e) What is the incubation temperature?
- **PY-8** (a) 0.25g of a compound  $C_{10}H_{15}$  NO.HCI was titrated with 0.1 M HCIO<sub>4</sub>. It consumed 12.5 ml of the titrant
  - (i) What is the stoichiometric factor used for the calculation of percentage purity?
  - (ii) Calculate the percentage purity
  - (b) Write the formula used and calculate the absorbance of a solution of a compound having an  $\in_{max}$  6200 when 0.05 mM solution is measured in a 1cm cell.
- PY-9 (a) Complete the following reaction giving appropriate structures

O-toluidine is treated with 2-Bromo propionyl bromide, the resulting product is treated with propylamine to get the drug

CENTER

(b) To which therapeutic category does not drug belong?

**PY-10** 2 – amino – 4,5 dimethoxy benzoic acid  $\xrightarrow{\text{NaOCN}}$  A

$$\xrightarrow{\text{PCI}_3/\text{PCI}_5} \text{B} \xrightarrow{\text{NH}_3} \text{C} \xrightarrow{\text{1-(2-Furoyl piperazine)}} \text{D}$$

- (a) Write the products at A, B, C, D
- (d) To which therapeutic category does the drug D belong

**PY-11** 2H-1, 2, 4,-Benzothiadiazine-7-sulfonamide-6-chloro-1, 1-dioxide, can be modified to change biological properties. Comment on the effected of the following modifications to the structure

- (a) Saturation of-3-4-double bond
- (b) Substitution of 6-chloro by- $\operatorname{CF}_3$
- (c) Insertion of a benzyl group at position 3
- (d) Insertion of a methyl group at position 2
- (e) Saturation of 3, 4-double bond, insertion of a benzyl at position 3, and substitution of 6-Cl by  $\mathrm{CF}_3$

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#### **PY-12** Draw the structures of the following

- (a) Dimethyl-[3-phenyl-3-(pyridyl)-propyl]-amine
- (b) 4-amino-N-(-2diethyl-aminoethyl) benzamide
- (c) N<sup>1</sup>-(5-methyl is oxazol-3-yl)-sulfanilamide
- (d) 2-(2-fluoro biphenyl-1-4-yl) propionic acid
- (e) (E)-2-(3-pyrrolidin-1-yl-1-(-4-tolyl)prop-1-enyl) pyridine

#### **PY-13** Draw the structures of the major first phase metabolic products of the following drugs by the given route

- (a) Phenobarbitone-by aromatic hydroxylation
- (b) Procaine -by hydrolysis
- (c) Imipramine –by N-mono dealkylation
- (d) Nor-epinephrine-by oxidative deamination

(e) 6-mercaptopurine- by oxidation

#### PY-14 Name the enzyme that catalyze the following reactions

(a) Acetoacetyl CoA

Acetyl CoA

(b) Oxaloacetate

Malate

(c) Riboflavin

Flavin mononucleotide

Mevalonate

(d) HMG-CoA(e) Glutamate

GABA

**PY-15** For the following drugs, name the type of interaction and the molecule involved in exerting their pharmacological response

CENTER

(a) Captopril

(b) Diltiazem

(c) Diazepam

(d) Rifampicin

(d) Haloperidol

#### PY-16 Name five components of an aerosol package

**PY-17** A drug solution has an initial potency of 125 mg/5ml after storing for 30 days in a refrigerator, the potency is found to be 100mg/5ml What is the half-life of the drug solution under these conditions? The drug undergoes first order kinetics. Give the equations and step involved

#### **PY-18** Name the five force that can act between solid particles in Tablet manufacture.

- **PY-19** (a) Give four reasons for pH adjustment in parenteral preparation
  - (b) In which year was the pharmacy Council of India first constituted by the Central Government

#### PY-20 In five different patients, deficiencies of Vitamins were diagnosed. The diagnosis were

(a) Scurvy

(b) Wet or dry beriberi

(c) Inflamed tongue, glossitis

(d) Pernicious anemia

(e) Osteomalacia in adults

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PY-21 (a) Define Schick Test Toxin, IP

(b) What is it's dose

(c) What is it's pH?

(d) Give it' storage conditions

- (e) Define Schick Control
- PY-22 The antibiotics VANCOMYCIN, CEFALEXIN, FUSIDIC ACID, ERYTHROMYCIN and BICYCLPMYCIN belong to one of the following classes. Include them in the appropriate class Cyclic dipeptide,  $\beta$ -lactam, Macrolide, Tetracyclic triterpene, Glycopeptide.

End of paper

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## **ANSWER KEY GATE 2002**

#### Section - A

1.1 – c	1.2 – c	1.3 - c	1.4 – d	1.5 – a
1.6 – b	1.7 – a	1.8 – c	1.9 – c	1.10 – b
1.11 – a	1.12 – c	1.13 – a	1.14 – a	1.15 – a
1.16 – a	1.17 – c	1.18 – b	1.19 – c	1.12 – a
1.21 – b	1.22 – a	1.23 – c	1.24 – d	1.25 – b
2.1 – a	2.2 – c	2.3 – a	2.4 – d	2.5 – c
2.6 – b	2.7 – c	2.8 – d	2.9 – a	2.10 – b
2.11 – c	2.12 – b	2.13 – a	2.14 – b	2.15 – d
2.16 – c	2.17 – b	2.18 – d	2.19 – a	2.20 – c
2.21 – d	2.22 – c	2.23 – c	2.24 – c	2.25 – a



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