Q.P. Code: 14496

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1

		(2½ Hours)	[Total Marks :
N.B.	: (1)	All questions are compulsory.	
	100000000	Figures to the right indicate full marks.	
1. (a)	(i)	Discuss any three chemical transformations taking during drug metabolism.	g place inside the body
	(ii)	Write the structure and application of Chloroquin. OR	THE PARTY OF
(a)	(i)	Write, a note on discovery of Lead compounds.	
		Write the structure and application of Niclosamide	· Les
Ans	wer	ANY TWO of the following.	2
		What are chemotherapeutic agents? Explain giving examples.	g any two suitable
	(ii)	How are anti-infective drugs developed from natural	ral sources?
(c)		Write general structure of Benzodiazepines. Give i relationship.	
	(ii)	What is drug absorption? Explain any one factor a process.	ffecting the absorption
(d)	(i)	Give the synthesis of Paludrine.	the state of the
	(ii)	Discuss drug distribution to various tissues of the b	body.
(e)	(i)	Give the synthesis of Ciproflexacin.	20 mm 1 7
	(ii)	What are anthelmintics. Explain its mode of action	1?
			1
2. (a)	Giv	e the therapeutic use and synthesis of p-[2'-(5-chlore	02-
		hoxybenzamido) ethyi] benzene sulphonamide from	n methyl-5-chloro-2-
	me	hoxy benzoate.	ov the most are to
		OR OR	
(a)		Discuss any three methods by which Tuberculosis i	is diagnosed.
	(ii)	Give the synthesis of Dapsone.	
		and the state of t	To the Second Second
Atten	apt &	NY TWO of the following.	SET 2 2007 FD 46
(b)		What causes cancer? What is meant by Malignanc	y.;
1	P. 1780	Give the synthesis of 5- Fluorouracil from urea.	
(c)		Explain the following-	Secure of Williams
1,9		T) Targeted drug delivery and its advantages.	a chi carre y.
The.		2)Use of carbon nanotubes in the treatment of can	
Y (ii) (live the synthesis of p-Acetyl amino benzenesulph	onyl chloride from

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(d) (Give a	a brief idea about the following-	5
	(i)	Pathogenicity of HIV	
		Use of Gold nano particles in the treatment of Alzheimer's disease. OR Parkinson's disease.	
(e)	(i)	Give the synthesis of (+) Ethambutol.	3
	(ii)	Write the structure and chemical class of Diloxamide furoate.	2
(a)		How will you prepare Resorcinol from Benzene?	3
	(ii)	Explain the dye fiber attachment due to Van der waal's force of attraction OR	2
(a)	Give	preparation of the following	-5
	(i)	2-methylanthraquinone from Phthalic anhydride	2
	(ii)	2-naphthol from Naphthalene	
nswer	AN	TWO of the following	
(b)	(i)	What is nitration? Give one example of nitration. Explain the role of conc.	3
		H ₂ SO ₄ in nitration.	
	(ii)	Explain the term intermediates with examples.	2
(c)	(i)	How will you prepare Naphthol ASG from Benzene?	3
	(ii)	Write a note on halogenation with suitable example.	2
(d)	(i)	What is unit process? Explain sulphonation with suitable example	3
	(ii)	Write a note on direct dyeing of cotton	2
(e)	(i)	Give synthesis of Benzanthrone from Anthracene.	3
	(ii)	Write a note on mordant dying of cotton.	2
(a)	Giv	re the synthesis of Indigo starting from Aniline and write its uses. OR	5
(a)	(i)	How will you prepare Orange IV using Sulphanilic acid?	3
	(ii)	Discuss the harmful effects of Benzidine dyes on human health.	2
		YTWO of the following	
(b)	Hov	will you prepare Diamond Black F starting from N. W. acid? Give its uses	5
(c)		How is Bismark Brown synthesized from m-phenelynediamine?	3
	(ii)	Write the structure of silk and give the classes of dyes applied to it.	2
(d)		w is Safranine T prepared from o-toluidine? Give its uses.	5
(e)	pet Service	Write the synthesis of Eosine using Phthalic anhydride.	3
	(11)	Write the harmful effects of textile dyes on human health.	2

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5. Answer ANY THREE of the following. (a) Fill in the blanks by choosing the correction (i) Antibiotics are obtained from (1) living microorganism (2) sy (3) natural compound (ii) Structure of PAS is	ect option. ynthetic chemical compound			
(1) 0=Q-NH-NH ₂ (2)	COOH (3) O NH2			
(1) all dimensions = 150 nm (3) all dimensions > 100 nm (iv) Antibiotics must be effective is (1) High (2) Low (3) (v) combination of drugs is a (1) Ciprofloxacin + Tinidazole (2)	Antibiotics must be effective is concentration (1) High (2) Low (3) Moderate			
(b) Match the following				
A	В			
(i) Increase in activity	(a) AIDS			
(ii) Metronidazole	(b) Antimicrobial activity			
(iii) Screening method	(c) Chain branching			
(iv) Zidovudine	(d) Amoebiasis			
(v) Silver nanoparticles	(e) Lead compounds			
The state of the s	(f) Antineoplastic			

(c) State whether the following are True or False.

(i) With the help of CADD, activity of ligands binding with receptor can be easily determined.

(ii) PAS is the drug used to treat tuberculosis.

(iii) The finctional groups and other structural units responsible for pharmacological action of a drug are called as pharmacophores.

(iv) Tuberculosis is caused by Entamoeba histolytica.

(v) 2,4,5 - triamino - 6 hydroxypyrimidine is an intermediate used in the synthesis of Glibenclamide.

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- (d) Write the structure of following dyes.
 - (i) Eriochrome Red B
 - (ii) Methylene Blue
 - (iii) Indanthrene Blue
 - (iv) Malachite Green
 - (v) Alizarine Cyanine Green G
- (e) State True or False
 - (i) Ionic forces results in covalent type of linkage between the dye and the fibers.
 - (ii) Primaries can directly be converted to dye.
 - (iii) Polyester is hydrophobic fiber.
 - (iv) Food colours have to be approved by the FDA.
 - (v) Diazotization is carried out at high temperature.
- (f) Complete the following reaction and rewrite them:

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