

**GPAT - 2019** 

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### **OTHER SUBJECTS**

1.	. As per the Medical Termination of Pregnancy Act and rules, the safe custody of "Forms" is with :					
	(a) Standing committee	(b) Registered Medical P	ractitioner			
	(c) Owner of the approved place	(d) Chief Medical Officer				
2.	For protein detection most commonly used	d probe is :				
	(a) Interferon (b) Antibody	(c) Lectin	(d) Antigen			
3.	Consumer who are loyal to two-three bran	nds are considered as:				
	(a) Split loyals (b) Switcher loyals	(c) Semi-core loyaLs	(d) Shifting loyals			
4.	Choose the CORRECT statement with response	ect to "The Pharmacy Act, 1948	3:			
	(a) Education regulation 1991 dose not prescribe the minimum qualification for the registration as Pharmacist					
	Pharmacist	†PAT				
	(b) Section 12 of the act deals with the ap	proval of course of study under	r chapter 2 there of.			
	(c) Section 12 of the act deals with the app	proval of course of study and ex	xamination under chapter			
	2 there of.	ENTER				
	(d) State Govt is authorised to make any	rules with respect to course of	study.			
<b>5.</b>	ELISA is based upon					
	(a) Antigen Protein Interaction	(b) Antibody - protein In	nteraction			
	(c) Antigen Antibody Interaction	(d) Lectin - Antibody Int	eraction			
6.	The relation between emissive power of the	ne surface and its absorptlyity is	s given by			
	(a) Stefan - Boltzmann Law	(b) Darcy's Law				
	(c) Fourier's Law	(d) Kirchhoff's Law				
7.	In India the patent office has its head offic	e at Kolkata and branch offices	at:			
	(a) Dibrugarh, Indore and Vapi	(b) Kashmir, Ahmedabad	l and Trivandrum			
	(c) Chandigarh, Hyderabad and Goa	(d) Mumbai, Chennai and	d New Delhi			
8.	Penalty for the cultivation of any cannabis p	plant to produce, sell. purchase t	ransport in contravention			
	of Narcotic Drugs and Psychotropic substa	nces Act and Rules on first con	viction is			
	(a) Rigorous imprisonment up to 10 year	rs or fine up to Rs. 10 Lakhs				
	(b) Rigorous imprisonment up to 10 year	rs or fine up to Rs. 1 Lakh				
	(c) Rigorous imprisonment up to 6 month	hs				
	(d) Fine up to Rs. 10 Lakh					
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- 9. In Direct, Contact or Jet condensers, barometric leg serves one of the following functions:
  - (a) To remove the condensate/cooling water mixture
  - (b) To measure the pressure difference across the tube
  - (c) To Heat the liquid feed to ifs boiling point
  - (d) To transfer the feed in to the evaporating chamber
- **10.** Which of the following is considered as differentiated product?
  - (a) Ranitidine
- (b) Zantac
- (c) Isoniazid
- (d) Paracetamol

- **11.** Hardinge mill is a variant of :
  - (a) Fluid energy mill
- (b) Ball mill
- (c) Hammer mill
- (d) Rotary cutter mill

#### PHARMACEUTICAL CHEMISTY

- **12.** Retention hyperbilirubenamia is caused due to
  - (a) Choleric jaundice

- (b) Non clearance of bilirubin
- (c) Reflux of bilirubin into blood stream
- (d) Over production of bilirubin
- **13.** What will be the Heat of vaporisation of 1 mole of water, when it has the entropy change ( $\Delta S$ ) of 35.2 cal/mole.deg (at 25°C)?
  - (a) 1.408 cal/ mole

(b) 10489 cal/ mole

(c) 8465 cal/ mole

- (d) 880 cal/mole
- **14.** Identify the name of drug with the following structure :

- (a) Esmolol
- (b) Betaxolol
- (c) Metoprolol
- (d) Bisaprolol
- **15.** The following ACE inhibitor used in treating cardiovascular disorder is synthesized from the natural amino acids L-alanine and L-proline :
  - (a) Ramipril
- (b) Enalapril
- (c) Insmopril
- (d) Captopril
- **16.** The infra-red absorption peaks of Nujol is due to vibrations involving
  - (a) S hstr and S hdef

(b) S - hstr and O - hdef

(c) C - hstr and C - hdef

- (d) N hstr and N hdef
- **17.** Permitted tolerance limit for a 100mL class B volumetric flask and 1000 mL class B volumetric flask according to BS 1792 specifications respectively are \_\_\_\_ mL
  - (a) 0.15 and 0.80
- (b) 0.80 and 0.30
- (c) 1.00 and 10.00
- (d) 0.15 and 1.5



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18. Predict  $\lambda_{maz}$  for  $\pi$  -  $\pi^*$  absorption band in the UV spectrum of following compound :

- (a) 237 nm
- (b) 215 nm
- (c) 241 nm
- (d) 240 nm

**19.** One of the following is a most commonly used protecting group for amines :

(a) Para Methyl benzyl (PMB)

(b) t-Butyloxy carbonyl (t-BOC)

(c) Methoxy methylene (MOM)

(d) Tetra hydro pyranyl oxy (THP)

20. Choose the correct sequence of process during Atomization in atomic absorption spectroscopy

- (a) Desolvation  $\rightarrow$  Nebulization  $\rightarrow$  Dissociation  $\rightarrow$  Volatilization  $\rightarrow$  Ionization
- (b) Nebulization  $\rightarrow$  Desolvation  $\rightarrow$  Volatilization  $\rightarrow$  Dissociation  $\rightarrow$  Ionization
- (c) Desolvation  $\rightarrow$  Nebulization  $\rightarrow$  Volatilization  $\rightarrow$  Dissociation  $\rightarrow$  Ionization
- (d) Nebulization Volatilization  $\rightarrow$  Desolvation  $\rightarrow$  Dissociation  $\rightarrow$  Ionization

**21.** Which among the following carrier gases has the highest thermal conductivity?

(a) Nitrogen

(b) Oxygen

(c) Helium

(d) Compressed Air

**22.** Phase solubility Analysis curve is not a good tool for :

(a) Complex formation

(b) Bioavailability determination

(c) Polymorph detection

(d) Impurity detection

**23**.

Identify the named reaction;

(a) Curtius Rearrangement

(b) Clemmensen reduction

(c) Wolf-Kishner reduction

(d) Wolf-Rearrangement

**24.** Which of the following inactive clotting factor is activated by the vitamin-K as a co-enzyme?

(a) I, II, III, IV

(b) II, V, IX, X

(c) II, V, VI, VIII

(d) II, VII, IX, X

**25.** Identify the molecule which will not exhibit Dipole moment?

- (a) Carbon dioxide
- (b) Carbon monoxide
- (c) Chloroform
- (d) Ammonia

 $\textbf{26.} \ \ \textbf{The following combination of drugs are used in treating severe travelers diarrhoea:}$ 

- (a) Pyrimethamine and sulfadiazine
- (b) Trimethoprim and sulfadiazine
- (c) Pyrimethamine and sulfamethoxazole
- (d) Trimethoprim and sulfamethoxazole

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27. Reaction of an $\alpha$ -halo ester with an aldehyde or ketone in the presence of a base like NaNH $_2$ gives						
	α, β-epoxy carboxyl	ic ester. This reaction is re	ferred as :			
	(a) Willgerodt rearr	angement	(b) Bamford steven reaction			
	(c) Darzen's glycidic	synthesis	(d) Bayer villiger rearra	ngement		
28.	Amylopectin, a comp	oonent of starch gives	colour with iodine			
	(a) No colour	(b) Green	(c) Blue	(d) Red-pur	ple :	
29.	Anti addition of bron	nine to trans-2-butene yiel	ds:			
	(a) Enantiomer and	racemic mixture	(b) Only racemic mixture	,		
	(c) Only enantiomer	S	(d) Only meso compound	ds		
<b>30.</b>	Conversion of aryldi	amnium chloride to arylchl	oride can be achieved in th	ie presence of	f:	
	(a) Copper (II) chlor	ride	(b) Copper (I) chloride			
	(c) Sodium chloride		(d) Calcium chloride			
31.	1. Von Gierke's glycogen storage disease is due to defect of which enzyme :					
	(a) Phosphofructoki	inase	(b) Glucosyl 4 - 6 transfe	erase		
	(c) Glycogen phosph		(d) Glucose - 6 - phosph			
<b>32.</b>			neo-pentyl bromide under $\boldsymbol{E}_1$ reaction conditions;			
	(a) neo pentyl alcoho		(b) 2-methyl-2-butene			
	(c) 2-methyl-l, 3-but		(d) 2-methyl butene			
33.	RNA molecules havin	ng intrinsic catalytic activity (b) Ribozymes	are called as			
				(d) rRNAs		
34.		derivative of penicillin is	synthesized by acylation o	f 6-APA with	p-hydroxy	
	phenyl glycine:	a >				
	(a) Becampicillin	(b) Amoxicillin	(c) Ampicillin	(d) Carbenio	cillin	
<b>35.</b>		product of the following re	action :			
	$+2H_2SO_4 =$ $\oplus$					
	(a) $H_3O + 2HSO_4 + N$	${\overset{\oplus}{NO_2}}$	(b) $H_2O + 2HSO_4 + NO_2$			
	$\oplus$ $\oplus$ (c) $H_3O + 2HSO_4 + N$	<b>.</b>	(d) $OH + 2HSO_4 + NO_2$			
26		=	-	94.		
36.		by the condensation of $\alpha$ -	amino carbonyl compound	WITH		
	(a) Amino acid		(b) Isocyanide			
27	(c) Aminoether	dor of ortho/para directing	(d) Iminoester g ability Of the functional g	roung from th	noco givon	
<b>37.</b>	below:	uer of ortho/para unrecting	g ability of the functional g	,roups mom u	iose giveii	
	(Strongest first, Wea	kast last)				
	(a) – NHCOR > – OH	•	(b) - NHCOR > - NH <sub>2</sub> > -	- C H > I		
	(c) – NHCOR $>$ – NR.		(d) – NHR > – NHCOR >			
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38.	Blockade in $\beta$ -oxidation results in :			
	(a) Von Gierk's disease	(b) Scurvy		
	(c) Sudden infant death syndrome	(d) Taruli' s disease		
39.	The basic ring system present in the antihypert	ensive and antiglaucoma drug Timolol" is:		
	(a) 1, 3, 5 - Thiadiazole and Morpholine	(b) 1, 3 - Thiazole and Morpholine		
	(c) 1, 2, 5 - Thiadiazole and Morpholine	(d) 1, 2, 4 - Thiadiazole and Morpholine		
<b>40</b> .	Dehydration of this dicarboxylic acid to obtain	corresponding anhydride is difficult due to stereo		
	chemical arrangement:			
	(a) Malic acid (b) Fumaric acid	(c) Glutaric acid (d) Succinic acid		
41.	Which of the following pair of drugs is con side	red as selective $\alpha_{_1}$ -Blockers ?		
	(a) Timolol and Metoprolol	(b) Prazosin and Terazosin		
	(c) Formoterol and Levalbuterol	(d) Yohimbine and Carynanthine		
<b>42.</b>	Calculate the accurate osmotic pressure at 00 Cof	a blood serum sample using Lewis equation having		
	freezing point – 053° C			
	(a) 0.636 atm (b) 6.39 atm	(c) 574.28 atm (d) 0.0441 atm		
43.	PM indicators are used in :			
	(a) Redox titrations	(b) Non-Aquous titrations		
	(c) Acid-base titrations	(d) Complexometric titrations		
44.	X 1 1 1 C	NTER		
	(a) First order reaction	(b) Second order reaction		
	(c) Pseudo first order reaction	(d) Fractional order reaction		
<b>45</b> .	Conversion Of a carbonyl functionality directly	to its hydrocarbon in basic media can be achieved		
	by			
	(a) Lithium aluminium hydride reduction	(b) Clemmensen reduc lion		
	(c) Sodium borohydride reduction	(d) Wolf Kishner reduction		
46.	Which of the following second generation $\beta_1$ - s	elective blockers contains 1, 3, 5 - thiadiazole ring		
	in its structure ?			
	(a) Sotalol (b) Timolol	(c) Penbutolol (d) Pindolol		
47.	The structural features present in anti-cancer a	ntibiotics (Doxorubicin, Daunorubicin, Idarubicin		
	and Epirubicin) are			
	(a) Naphthalene nucleus connected with amino			
		ring that is subsequently connected with amino		
	sugar via glycosidic linkage (c) Quinoline nucleus connected with amino su	ugar via glycocidic linkago		
		e ring that is subsequently connected with amino		
	sugar Via glycosidic linkage	Ting that is subsequently connected with annino		



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<b>48.</b>	When $50\mathrm{ml}$ of sodium hydroxide (0.1 M) is added to $100\mathrm{mL}$ of 0.1 M acetic acid, pH of the resultant
	solution is

Ka of acetic acid =  $1.82 \times 10^{-5}$ 

(a) 8.58

(b) 7.42

(c) 4.74

(d) 7.06

**49.** Gabriel ring closure method is employed for the synthesis of :

(a) 1 4-oxazine

(b) Aziridine

(c) Oxirane

(d) Oxaziridine

#### **PHARMACEUTICS**

- **50.** "Shake well" label must be placed on the containers of :
  - (a) Opthalmic suspension

(b) Occuserts

(c) Opthalmic solution

- (d) Opthalmic gels
- **51.** In case of Aerosol testing, valve delivering acceptance criteria for a volume of 54 mL or less

(a)  $\pm 75\%$ 

(b)  $\pm 5\%$ 

(c)  $\pm 10\%$ 

(d)  $\pm 15\%$ 

- **52.** Containers may be ren dered free from pyrogens by adequate cleaning and by:
  - (a) Autoclaving at 121 °C for 15 minutes

(b) Heating at 210 °C for 3-4 hours

(c) Autoclaving at 121 °C for 1 hour

- (d) Heating at 100 °C for 3-4 hours
- **53.** GMP regulation are pertaining to minimum requirements to be met by industry when :
  - (a) Manufacturing, packaging and holding of human drugs and veterinary drugs
  - (b) Manufacture of human drugs and veterinary drugs
  - (c) Manufacture and packaging of human drugs and veterinary drugs
  - (d) Manufacture and holding of human drugs and veterinary drugs
- **54.** Which one of the following viscometers can be used for characterizing non-Newtonian system?

(a) Falling sphere viscometer

(b) Cup and Bob viscometer

(c) Capillary viscometer

- (d) Hoeppler viscometer
- **55.** For drug substances with highly variable pharmacokinetic characteristics the following Bioequivalence study design is used

(a) Parallel Design

(b) Non-Replicate Design

(c) Non-Parallel Design

(d) Replicate Design

**56.** Roll-tube technique is the modification of :

(a) Pour plate technique

(b) The streak - plate technique

(c) Micromanipulator technique

(d) Spread plate technique

**57.** Which mechanism of metabolism of drug is not affected by weight change Of patient?

(a) Conjugative metabolism

(b) Acetylation metabolism

(c) Hydrolytic metabolism

(d) Oxidative metabolism

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58.	21 CFR part 211 of USFDA describes :	
	(a) Current good clinical practice	(b) Current good packaging practice
	(c) Current good manufacturing practice	(d) Current good laboratory practice
<b>59</b> .	In treating immunodeficiency disease the goa	l is to maintain lgG levels at about :
	(a) 100 mg/ dL (b) 400 mg/ dL	(c) 200 mg/ dL (d) 300 mg/ dL
<b>60.</b>	Which one of the following is the property of	fmicro-emulsion?
	(a) They have particle size more than 1 micro	on
	(b) They have poor stability	
	(c) They exhibit a viscoelastic gel phase, whe	n internal phase is added in excess
	(d) They have milky yellow colour	
<b>61</b> .	The rheological and functional properties of	synovial fluid are impaired due to :
	(a) Increase in the content of mucus	(b) Decrease in the content of mucus
	(c) Increase in the content of hyaluronic acid	(d) Decrease in the content of hyaluronic acid
<b>62.</b>	Movement of charged particle through a liquid	under the influence of an applied potential difference
	is known as	
	(a) Sedimentation Potential	(b) Streaming Potential
	(c) Electrophoresis	(d) Electroosmosis
<b>63.</b>	As per US FDA, NDA's for new chemical entit	
	(a) 'P' for product review or 'S' for standard	review F
	(b) "P' for priority review or 'S' for standard	review
	(c) 'P' for product review or 'S' for safety rev	view
	(d) 'P' for priority review or 'S' for safety rev	view
64.	In preformulation study polymorphs can be o	detected by
	(a) Counter - current chromatography	(b) Retractometry
	(c) High performance liquid chromatography	y (d) Differential scanning
<b>65</b> .	The following is/are used to determine the a	mount of drug bound to a protein:
	(a) Equilibrium dialysis (b) Solubility	(c) pH titration (d) Distribution method
66.	In tablet, hydroxy propyl methyl cellulose is u	ised as:
	(a) Diluent (b) Film former	(c) Disintegrant (d) Binder
<b>67.</b>	Dakin's solution is a synonym for :	
	(a) Ammonium Acetate solution	(b) Chlorinated soda solution
	(c) Chloroxylenlol solution	(d) Aluminium Acetate solution
68.		
	(a) Drug databases	(b) New compendial specification of drugs
	(c) Chronicles of drug standards	(d) Source for drug patents



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69.	<b>9.</b> Theories of emulsification are characterized by one of the following EXCEPT:						
	(a) Film forma lion	(b) Phase inversion					
	(c) Monomolecular adsorp Lion	(d) Solid particle adsorption					
<b>70.</b>	When two brands of a drug product gives same	clinical results, it is tern	ned as :				
	(a) Therapeutic equivalence	(b) Bio equivalence					
	(c) Pharmaceutical equivalence	(d) Clinical equivalence	9				
<b>71.</b>	Soda ash is also known as:						
	(a) Lime stone (b) Sodium carbonate	(c) Pure silica (d) C	alcium carbonate				
<b>72.</b>	Microcrystalline cellulose is also called as :						
	(a) Sugar tab (b) Nutab	(c) Emdex (d) A	vicel				
<b>73.</b>	Which of the following statement is NOT true re	garding bulkiness?					
	(a) The reciprocal of bulk density is bulkiness						
	(b) Bulkiest substance will require container la	rger than required for le	ss bulky substance				
	(c) Smaller particles shift between larger ones a	nd increases bulkiness					
	(d) Bulkiness increases with decrease in particle						
74.	Amixture of emulsifier A and emulsifier B with v						
	proportion to get mixture with required HLB 12	. What is the weight of in	ndividual emulsifier that is				
	to be taken to have a total weight of 7 gm?	CUSSION					
	to be taken to have a total weight of 7 gm.?  (a) A = 5.8 gm and B = 1.2 gm  (c) A = 5.6 gm and B = 1.4 gm	(b) A = 1.4 gm and B =	5.6 gm				
	(c) 11 - 3.0 gm and b - 1.1 gm	(a) 11 – 1.2 gm ana <i>B</i> –	5.0 gm				
<b>75.</b>	Which of the following oxide is not used for ach						
	(a) Manganese (b) Iron		(d) Carbon				
<b>76.</b>	In case of open model intravenous infusion, $C_{ss}$						
	(a) [Plasma concentratin] [Infusion rate] Clearance	(b) $\frac{[C_{max}][Infusion ranke}{Clearance}$	ate]				
	$[t_{\text{max}}]$ [Infusion rate]	Infusion rate					
	(c) $\frac{10 \text{ max } 1 \text{ Letter of } 1}{\text{Clearance}}$	(d) Clearance					
77.	In case of suppositories base, SFI stands for :						
	(a) Solidified Fatty acid Indices	(b) Solid Fluid Indices					
	(c) Solidified Fatty acid Incline	(d) Solid Fat Index					
<b>78.</b>	If mean volume — number diameter of a power	dered sample is 2.41µm,	, density is 3 gm/cm <sup>3</sup> , the				
	number of particles/gm will be .						
	(a) $538 \times 10^{10}$ (b) $3.68 \times 10^{10}$	(c) $4.55 \times 10^{10}$	(d) $4.70 \times 10^{10}$				
79.	Which polymorphic form of a drug candidate ha	is highest melting point	:				
	(a) Unstable (b) Metastable	(c) Hydrates	(d) Stable				



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80.	). For bitter drugs in paediatric formulations, excellent flavouring agent will be.							
	(a) Raspberry syrup		(b) Orange syrup					
	(c) Lemon syrup		(d) Black current syrup					
<b>81</b> .	The co-administration of erythromycin with cyclosporine :							
	(a) Increase bioavailability, due to inhibition of hepatic metabolism							
	(b) Increase bioavailability, due to inhibition of microflora in intestine							
	(c) Decrease bioavailability	due to complex form	ation					
	(d) Decrease bioavailability,	due to induction of l	hepatic metabolism					
<b>82.</b>	Essentially Hospital Formula	ary system provide n	nechanism to:					
	(a) Streamline prescription writing (b) Improve quality and hygenicity of food							
	(c) Avoid brand and therape	-	(d) Improve surgical pro-	cedures				
83.	Volume of blood that flows p	per unit time per uni						
	(a) Residence time		(b) Elimination rate					
	(c) Gastric emptying rate (d) Perfusion rate							
84.	Leaching by immersion Of c							
		b) Precipitation	J'/\"	(d) Crystallization				
<b>85</b> .	The protein toxins that have		duce the toxicity without si	gnificantly altering the				
	immunogenicity are known	/I DISC	USSION					
0.6		b) Antisera C E 1		(d) Vaccines				
86.	Which of the following is NO							
07		b) Floating	(c) Mucoadhesion	(d) Swelling				
87.	The phase contrast microsco	opy is valuable in stu		e :				
	<ul><li>(a) Stained</li><li>(c) Treated with fluorescent</li></ul>	- drvo	(b) Unstained	ant antihadu				
	(c) Treated with hadrestent	t uye	(d) Treated with fluoresco	ent antibody				
		PHARMACO	OGNOSY					
88.	The size Of Lycopodium sp	ores is :						
	(a) 45 μm (1	b) 15 μm	(c) 35 μm	(d) 25 μm				
89.	Regholarrhenines A-F have	been isolated from :						
	(a) Veratrums (1	b) Areca	(c) Aconite	(d) Kurchi				
90.	Pungency of Zingiber officin	nal e rhizome is due	to the presence of :					
	(a) Citral (1	b) Gingerol	(c) Commiphoric acid	(d) Gingeral				
91.	The principal cultivation are	eas of pyrethrum flo	wers are in -					
	(a) Sri Lanka (l	b) Malaysia	(c) India	(d) Kenya				

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<b>92.</b> ]	In	Cassia	ang	gustifolia	short-term	droug	ght:
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- (a) Increases the concentration of sennosides A + B
- (b) Decreases the concentration of sennosides A + B
- (c) Causes loss of leaf biomass
- (d) Causes death of the plant
- **93.** The Glycoside Scilliroside in red sqrill acts as :
  - (a) Insecticide
- (b) Rodenticide
- (c) Acaricide
- (d) Molluscide
- **94.** Shellac is a resinous substance pr4vtred from a secretion that encrusts the bodies of a scale insect:
  - (a) Viverra civet

(b) Karria lacca

(c) Acipenser huso

- (d) Alverites moschiferus
- **95.** All members of this order are trees or shrubs; mostly evergreen with needle like leaves; monoecious or dioecious sporophylls usually in cones. Resin ducts occur in all parts:
  - (a) Cycadales
- (b) Ginkgoales
- (c) Taxales
- (d) Coniferae
- **96.** In Gambir fluorescin test the petroleum spirit layer shows a strong :
  - (a) Green fluorescence

(b) Blue fluorescence

(c) Yellow fluorescence

- (d) Red fluorescence
- **97.** Antiviral action of Neem in due to :
  - (a) Kaemferol
- (b) Nelanin
- C E (c) Nimbin R

DISCUSSION

(d) Azadirachitin

#### **PHARMACOLOGY**

- **98.** Characteristic micrncapic features observed in Alzheimer's disease is:
  - (a) Epidural haemoregic patches
  - (b) Depigmentation of substantia nigra
  - (c) Demyelination of neurons in spinal cord
  - (d) Presence of neutritic plaques containing Ab-amyloid
- **99.** Cardiac output is:
  - (a) Volume of blood ejected by the auride per minute
  - (b) Volume of the blood ejected by the left ventricle per beat

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- (c) Volume of the blood ejected by the left ventricle per minute
- (d) Volume of blood ejected by the auricles per beat
- **100.** What are sutures?
  - (a) Cartilaginous joints

(b) Non fibrous joints

(c) Synovial joints

(d) Fibrous joints of the skull

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#### **101.** Following are the facts regarding clinical applications of muscarinic receptor blocking drugs. Identify the false statement:

- (a) Used in the treatment of parkinson's disease is often an excercise in polypharmacy, since no single agent is fully effective.
- (b) Marked reflex vagal discharge may stimulate sinoatrial oratrioventricular node to improve cardiac output.
- (c) Mydriasis produced greatly facilitates opthalmoscopic examination of the retina and measurement of refractive error in uncooperative patient
- (d) Scopolamine is one among the old remedies used to treat sea-sickness
- **102.** Which of the following cells are called scavenger cells?
  - (a) Neutrophils
- (b) Natural killer cells
- (c) Marcrophages
- (d) Mast cells

- **103.** Which is NOT true about calcitriol?
  - (a) It is active form of Vit D<sub>2</sub>
  - (b) It enhances reabsorption of calcium and phosphate from bone
  - (c) It prevents tubular reabsorption of calcium and phosphate
  - (d) Enhances absorption of calcium and phosphate from intestine
- 104. Production of an abnormal lgG immunoglohulin in Grave's disease causes:
  - (a) Multinodular goitre

(b) Hypothyroidism

(c) Thyrotoxicosis

- (d) Rheumatoid arthritis
- **105.** Metabolic acidosis does NOT occur during
  - (a) Starvation

TER (b) Chronic renal failure

(c) Wound healing

- (d) Uncontrolled diabetes mellitus
- **106.** Glucocorticoids have following effects EXCEPT:
  - (a) Stimulation of immune responses
- (b) Resistance to stress

(c) Lipolysis

- (d) Protein breakdown and glucose formation
- **107.** Which one of the following is NOT' the role of Nitric oxide?
  - (a) Reliving vascular smooth muscle
  - (b) Mediating microbicidal action of macrophages
  - (c) Serving as neurotransmitter in CNS
  - (d) Inducing platelet aggregation
- **108.** Identify the drug which is not useful in the treatment of tuberculosis:
  - (a) Pyrazinamide
- (b) Gentamicin
- (c) Streptomycin
- (d) Ciprofloxacin

- **109.** What is anaplasia?
  - (a) Morphological and functional alterations/changes, that are different from normal cells
  - (b) Morphological and functional resemblance to normal cells

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- (c) Increase in size of cell
- (d) Lack of growth of cells

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<b>110.</b> Match the following	<b>10.</b> Match the following liver abnormalities with consequences:								
(a) Steatosis	(a) Steatosis (M) Raised hiliruhin level								
(b) Cholestasis	(b) Cholestasis (N) Slight rise in serum transaminase level								
(c) Hepatitis	(c) Hepatitis (0) Accumulation of fat droplets within liver cells								
(d) Fibrosis	(d) Fibrosis (P) lilevated liver function test (LFT's)								
(a) (a) - (N), (l	(a) (a) - (N), (b) - (P), (c)- (M), (d)- (O) (b) (a) - (O), (b) - (M), (c)- (P), (d)- (N)								
(c) (a) - (N), (l	(c) (a) - (N), (b) - (O), (c)- (P), (d)- (M) (d) (a) - (P), (b) - (O), (c)- (N), (d)- (M)  11 Numerous isomers of human liver P450 enzyme have been identified it is not worthy that alone								
<b>111.</b> Numerous isomers of human liver P450 enzyme have been identified, it is not worthy thatalone									
is responsible	for the metabolism of over	55% of the prescription	drugs metabolized by liver.						
(a) CYP3A4	(b) CYPIA2	(c) CYP1A11	(d) CYP2B6						
<b>112.</b> Which of the f	<b>112.</b> Which of the following directly inhibits Factor Xa?								
(a) Dabigatraı	(b) Warfarin	(c) Bivalirudin	(d) Rivaroxahan						
<b>113.</b> Which of the	following anticonvulsants h	ave both inhibition of exc	citatory glutamatergic synapse						
and facilitation	n of GABA mediated Cl char								
(a) Valproate	(b) Ethosuximide		(d) Phenytoin						
	following is NOT a cardiose	//							
(a) Bisoprolol		(c) Acebutolol	(d) Pindolol						
115. The term 'ane	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	DISCUSSION							
	t blockage of blood vessels								
	t abnormal dilatation of blo								
	connections in blood vesse								
	growth of neurones near b								
		n is related to potent inhi	bition of receptor both						
peripherally a	•	( ) ) (							
(a) 5HT <sub>3</sub>	(b) D <sub>2</sub>	(c) M <sub>1</sub>	(d) H <sub>1</sub>						
_	se statement about benzod		ing:						
	epines cause reduction of a	inxiety							
	epines cause convulsions	11	1						
	epines produce muscle rela		o-ordination						
	epines are useful in insomr								
	following is 5-alpha reducta								
(a) Gliclazide	(b) Sildenafil	(c) Finasteride	(d) Polythiazide						
	•	inicropes and inflamed ti	ssues attract phagocytes, this						
-	is called as	(a) Chamatavia	(d) Emigration						
(a) Phagocyto	sis (b) Integrins	(c) Chemotaxis	(d) Emigration						



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<b>120</b> .	Hematocrit 65% to 70	% indicates:		
	(a) Hemophilia	(b) Polycythemia	(c) Hypoxia	(d) Anaemia
<b>121.</b>	The adverse reaction	associated with â-2 age	onists administered by in	halation or nebulisation in
	the management of as	thma does not include		
	(a) Peripheral vasodik	ation	(b) Hypertension	
	(c) Tachvcardia		(d) Fine tremor	
<b>122.</b>	Select the ulcer protec	tive drug from the follow	ring:	
	(a) Oxyphenonium	(b) Metronidazole	(c) Misoprostol	(d) Sucralfate
<b>123.</b>	Disturbances of oestro	ogen/progesterone bala	nce could cause a relative	deficiency of leading
	to disturbances in p	production of dopamin	e and serotonin. This c	ontributes for emotional
	disturbances and depr	ession.		
	(a) Enzyme decarboxy	lase (b) Tvrosine	(c) Pyridoxine phosphat	e (d) Co-factor A
<b>124.</b>	Testing of chemicals by	y OECD guideline No. 42	0 refers to which of the fol	lowing:
	(a) Ate oral toxicity by	acute toxic class method	d	
	(b) Acute oral toxicity	by up and Down proced	lure	
	(c) Repeated dose 28-	day toxicity study in rode	ents	
		by fixed dose procedure	DAT	
125.	Which of the following			
	Excessive use of diure	tics can lead to:	CUSSION	
	(a) Hypervolemic shoc	ck Dis	(b) Neurogenic shock	
	(c) Hypovolemic shock		(d) Cardiogenic shock	

End of paper



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11-b	12-d	13-b	14-d	15-b	16-с	17- b	18-a	19-b	20-b
21-с	22-b	23-с	24-d	25-a	26-d	27-с	28-d	29-d	30-b
31-d	32-b	33-b	34-b	35-a	36-d	37-d	38-c	39-с	40-b
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51-d	52-b	53-a	54-b	55-d	56-b	57-d	58-c	59-с	60-с
61-d	62-c	63-b	64-d	65-a	66-b	67-b	68-a	69-b	70-a
71-b	72-d	73-с	74-b	75-c	76-d	77-d	78-c	79-d	80-a
81-a	82-c	83-d	84-a	85-c	86-a	87-b	88-d	89-d	90-b
91-d	92-a	93-b	94-b	95-d	96-a	97-c	98-d	99-с	100-d
101-b	102-с	103-с	104-с	105-с	106-a	107-d	108-b	109-a	110-b
111-a	112-d	113-a	114-d	115-b	116-с	117-b	118-с	119-с	120-b
121-b	122-d	123-с	124-d	125-с					



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