(Total No. of printed pages: 14)

Sr	No		
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CPG-EE-2017

(PHARMACEUTICAL SCIENCES) SET-"C"

Time: 11/2 Hours	Total Questions	s : 100	Max. Marks: 100
Roll No(in f	figure)		. (in words)
Name :		Date of Birth :	
Father's Name :	Mother	s Name :	
Date of Examination			
(Signature of the Candidate)		(Signatu	re of the Invigilator)
CANDIDATES MIIST READ THE E	OLI OUTNO INFORMATIO	ONI / MATCHINE TO THE TOTAL TO	

CANDIDATES MUST READ THE FOLLOWING INFORMATION/ INSTRUCTIONS BEFORE STARTING THE QUESTION PAPER.

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- 2. The candidates must return the Question book-let as well as OMR answer-sheet to the Invigilator concerned before leaving the Examination Hall, failing which a case of use of unfair-means / misbehaviour will be registered against him / her, in addition to lodging of an FIR with the police. Further the answer-sheet of such a candidate will not be evaluated.
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S

	Which of the following alkaloids are founds as salts of meconic acid?		Bavchi consists of dried ripe fruits of:
	(1) Ergot alkaloids		(1) Pruncus amygdalus
	(2) Rauwolfia alkaloids		(2) Ammi visnaga
	(3) Tropane alkaloids		(3) Psoralea corylifolia
	(4) Opium alkaloids (4)		(4) Picrorhiza kurrroa
	Indian belladonna is: (1) Atropa belladonna (2) Atropa belladonna (3) Atropa belladonna (4) Varenaleladonna (5) Varenaleladonna		bacterial cell following enzyme is used:
the	(2) Material Santagerial (2)		(2) Pyrrolidine and piperidine ri (1) Pectinase (1)
	(4) Atropa succirubra	37	(3) Chitinase enibilery (6)
	(3) Sand and siliceous earth		(3) Cellulases slosebind (4)
3.	Umbelliferous fruits area: (A) (1) Schizocarp	- 10	. Ephedra consists
esent	15. The amount of grands (2)	77.	Tropane alkaloids are
*	in Rauwolfia ranges between (8)	*	biosynthesized from: Doinic
25	(4) Mesocarp %07.1-3.0 (1)		(1) Ornithine lates anithin (1)
	Cascara bark to be used as drug is collected one year before use because: (1) Fresh bark contains		(2) Tryptophan (2) dried action (2) (3) Tyrosine (3) dried roots (4) Phenylalanine (4) dried leaves
	anthranol derivatives which samue becuber a si jostal at have emetic and griping action	8.	Which of the following ring system is present in bioflavanoids?
	(2) Storing for one year oxidizes		(1) Colcientaquinone (1)
	anthranol to less irritant anthraquinone derivatives		(2) Steroidal muchicum (2)
,,, ((3) Both (1) and (2) (8)		(3) Colchicum lutealobal (E)
-	4) None of the above (A)		(4) Colchicum secundum
	-A-H	3]	CPG-EE-2017/Pharmacy/225.

9.	Isothiocyanate glycosides are:	13.	Coumarin present in cassia oil,
	(1) also known as glucosinolates		when treated with alkali shows a:
	(2) S- glycosides		(1) Red fluorescence
	(3) found only in dicot plants		(2) Deep blue fluorescence
	(4) All of the above		(3) Green-blue fluorescence
			(4) Green fluorescence
10.	Tropane ring is composed of:	10.10	
	(1) Imidazole and pyridine ring	14.	Physiological "ash" represents :
	(2) Pyrrolidine and piperidine ring		(1) Water soluble material
	(3) Pyrolidine and piperazine ring		(2) Material derived from the
	. **		plant itself
a *	(4) Imidazole and indole ring		(3) Sand and siliceous earth
11.	Ephedra consists of		(4) All of the above
	of Ephedra		
	sinica.	15.	The amount of alkaloids present
	(1) dried latex		in Rauwolfia ranges between:
			(1) 0.5-1.5%
	(2) dried aerial parts		(2) 0.5-2%
	(3) dried roots		(3) 0.7-2.4%
	(4) dried leaves		i i i g
	a w		(4) 0.7-3.5%
12.	Indian colchicum is:	16.	Ergot is produced during:
	(1) Colchicum autumnale		(1) Honeydew stage
	(2) Colchicum album		(2) Sclerotium stage
	(3) Colchicum luteum		(3) Ascospore
	(4) Colchicum secundum		
CPG		1	(4) Sphaecelia stage
J. U	-EE-2017/Pharmacy/225 [A-4	1	

17.	Erg	otoxine is a mixture of:	21.	The	e ginsenosides have been
	(1)	2 alkaloids			scribed and designated
	(2)	3 alkaloids			cording to their :
	(3)	4 alkaloids			Activity
	(4)	6 alkaloids		(2)	
					Rf value
18.		um belongs to the chemical		(4)	Uses
		Indole alkaloids	22.		ve oil is used for temporary ng of dental cavities, along
	(2)	Quinoline alkaloids		witl	
	(3)	Isoquinoline alkaloids		(1)	Zinc oxide
	(4)	Tropane alkaloids		(2)	Potassium hydroxide
19.		is used as		(3)	Potassium iodide
		oprotectant in cryopreserved		(4)	Sodium chloride
	tiss	ue culture.	00	ο:	
	(1)	Auxin	23.		seng belongs to the chemical as of:
	(2)	Vitamin - B ₆		(1)	Alkaloids
	(3)	Liquid nitrogen		(2)	Glycosides
	(4)	DMSO		(3)	Saponins
20.	Sch	izolysigenous oil glands are			Volatile oils
		sent in :	0.4	A 11	-641 - 6-11
	(1)	Petal	24.		of the following contains indole lety except:
	(2)	Style		(1)	Strychnine
	(3)	Hypanthium		(2)	Reserpine
	(4)	Crown		(3)	Physostigmine
		i San a		(4)	Atropine
8		[A-5]		CPG-EE-2017/Pharmacy/225.

25. C-24 glycosides shows 29. Drug of choice the status following test: epilepticus in children is : (1) Baljet test Diazepam (2) Legal test (2)Phenobarbitone (3) Liberman's sterol test (3) Carbamazepine (4) All of the above (4) Phenytoin 26. Buspirone is mainly used as: **30.** The only contraindication (1)Antianxiety pentaerythritol tetranitrate is: (2)Antipsychotic (1) Acute MI (3)Antidepressant (2) Hyperthyroidism (4)Antimanic (3) Angina pectoris 27. Dissociative anaesthesia is seen (4) Epilepsy with: 31. Dopamine is: (1)Halothane (1) α and β antagonist (2)Ketamine (2) α and β agonist (3)Choloroform (3) α - agonist (4)Nitrous oxide (4)β~agonist 28. Blood glucose levels in diabetes 32. Which of the following is most may be lowered by: likely to cause tinnitus in high (1) Codeine administration doses? (2) Insulin administration (1) Ibuprofen (3) Subcutaneous injection of (2) Mefenamic acid adrenaline (3) Aspirin (4) All of the above

(4) Indomethacin

37. Which of the following is anorectic 33. Ketorolac trimethamine is useful agent? as: (1) Dobutamine (1) A bronchodilator (2) Methoxamine (2) An hypertensive (3) Fenfluramine non-steroidal (3) Non-narcotic (4) Mephenteramine analgesic (4) Narcotic analgesic 38. 6 - Mercaptopurine potentiates action of: 34. Meperidine is popularly known (1) Cyclophosphamide as: (2) Allopurinol Morphine (1)(3) Methotrexate Pentazocine (2)(4) 5-FU Pethidine (3)39. Which cytotoxic drug inhibits Emetine (4)cellular division in mitosis (i.e. 35. Bromocriptine is not used in : metaphase arrest): (1) Vincristine (1) Shock (2) Suppression of lactation (2) 5-FU (3) Methotrexate (3) Parkinsonism (4) Cyclophosphamide (4) Prolactinourea may cause 40. Drugs that 36. Which drug should not be given megaloblastic anaemia include along with levodopa? each of the following except: (1) Carbidopa Methotrexate (1)

(2) Thiabendazole

Cytarabine

(3) Phenytoin

(4)

(2) MAO inhibitors

(3) Atropine

(4) Bensarazide

41. Anticancer drug which crosses 45. Local anesthetic of choice for the blood brain barrier: anaesthetizing gastric mucosa is: (1)Cisplatin Oxethazaine (1)(2)Vincristine (2)Lidocaine (3)Vinblastine Dibucaine (3)(4)Nitrosoureas (4)Butamben 42. Mode of action of actinomycin D 46. Which of the following autacoids is to prevent: is implicated in migraine: (1)RNA elongation Histamine (1)(2)DNA synthesis (2)5-HT (3)DNA elongation (3)Angiotensin (4)None of these Leukotrienes (4)43. Which of the following is most 47. Prostaglandin, which has antieffective in inhibiting gastric acid secretion? aggregatory action on platelets: (1)Ranitidine (1) PGG_2 (2)Famotidine (2)PGI₂ (3)Omeprazole (3)PGH₂ (4)Pirenzepine (4)PGF₂ 44. Which of the following purgative 48. Antihistaminic agent which is is an anionic detergent? ineffective orally: (1)Phenolphthalein Sodium chromoglycate (1)(2)Liquid paraffin (2)Salbutamol Bisacodyl (3)(3)Theophylline Dioctyl sulfosuccinate Orciprenaline (4)CPG-EE-2017/Pharmacy/225 [A-8]

- 49. All of the following are adverse effects of aminoglycoside antibiotics except:
 - (1)Neuromuscular blockade
 - (2)Hematuria
 - (3)**Dermatitis**
 - (4)Anaemia
- 50. Antiviral activity of zidovudine is due to:
 - (1) Inhibition of viral RNA polymerase
 - (2) Inhibition of viral protein synthesis
 - (3) Inhibition of viral dependent DNA polymerase
 - (4) All of the above
- **51.** p-nitro benzoic acid is the convenient starting material for the synthesis of:
 - (1)Procaine
 - (2)**Xylocaine**
 - (3)Piperacaine
 - Etidocaine (4)

- 52. The IUPAC name of bupivacaine, a local anaesthetic is:
 - (1) butyl-N-(2,6 diethyl phenyl)-2pyridine carboxamide
 - (2) 1-butyl-N-(2,6 dimethyl phenyl)-2-piperidine carboxamide
 - (3) butyl-N-(2,6 dimethyl benzyl)-2-piperidine carboxamide
 - (4) butyl-N-(2,6 dimethyl benzyl)-2-pyridine carboxamide
- **53.** Methylation of nitrogen at position number 1 in barbituric acid lipid solubility and duration of action:
 - (1)Increases, shortens
 - (2)Increases, increases
 - (3)Shorts, shortens
 - (4)Shortens, increases
- 54. Morphine and Heroin differ from each other in respect of:
 - (1) Methyl group on nitrogen
 - (2) Acetyl group at C1 and C6
 - (3) Absence of double bond between C4 and C6
 - (4) Absence of D-ring

- **55.** 4[4-(4-chlorophenyl)-4-hydroxy piperidino]4'fluoro butyrophenone is the IUPAC name of :
 - (1) Diloxanide
 - (2) Haloperidol
 - (3) Molindone
 - (4) Droperidol
- **56.** Oxazepam, a psychoneurotic has lower chances of side effects and reduced toxicity due to:
 - (1) Aromatic hydroxylation
 - (2) Ring oxidation
 - (3) Conjugation of 3-OH group
 - (4) N-demethylation
- **57.** Saturation of 4,5 double bond in 1,4 benzodiazepine result in compound with:
 - (1) Reduced activity
 - (2) Potent activity
 - (3) Intermediate activity
 - (4) No activity
- **58.** Carbachol is an ester of amino formic acid and it is prepared by direct combination of 2-chloro ethyl carbamate with:
 - (1) Triethylamine
 - (2) Diethylamine
 - (3) Methylamine
 - (4) Aniline

- **59.** Condensation of N-m-hydroxy phenyl-N-p-tolyl glycine with ethylene diamine gives :
 - (1) Tolazoline
 - (2) Phentolamine
 - (3) Prazocin
 - (4) Phenoxy benzamine
- **60.** Primaquine, an anti-malarial drug is synthesized starting from :
 - (1) Phenol
 - (2) Anisole
 - (3) Hexamine
 - (4) Pentamine
- **61.** The near ultraviolet region ranges from :
 - (1) 100 300 mμ
 - (2) 100 400 mμ
 - (3) 200 400 m_µ
 - (4) 200 350 mμ
- **62.** Electronic transitions in organic molecules involve :

'n

- (1) Transition of σ electrons
- (2) Transition of n electrons
- (3) Transition of π electrons
- (4) All of the above

63.	The	commonly used detector in	67.	The	reference electrode in
	UV	spectrophotometer is:		pot	entiometric titrations is:
	(1)	Photomultiplier tube		(1)	Noble metal electrode
	(2)	Thermocouple		(2)	Dropping mercury electrode
	(3)	Bolometer		(3)	Saturated calomel electrode
	(4)	Littrow prism		(4)	Platinum electrodes
64.		IR radiation source, Globar is mically:	68.	The	pressure used in HPLC is:
	(1)	Silicon carbide		(1)	1000 – 3000 psi
	(2)	Silicon disulphide		(2)	1000 – 5000 psi
	(3)	Zirconium oxide		(3)	1000 – 6000 psi
	(4)	None of the above		(4)	2000 – 6000 psi
65 .	О-Н	stretching vibrations in	69 .	The	commonly used binder in
	alco	hols and phenols ranges from:		TLC	is:
	(1)	3550 - 3450 cm ⁻¹		(1)	Calcium carbonate
	(2)	3400 - 3200 cm ⁻¹		(2)	Calcium bisulphate
	(3)	3650 – 3590 cm ⁻¹		(3)	Calcium sulphate
	(4)	3570 – 3450 cm ⁻¹		(4)	Calcium hydroxide
66.	The	largest peak in the mass	70.	The	inert gas used in gas
	spec	trum is known as :		chro	omatography is:
	(1)	Metastable peak		(1)	Hydrogen
	(2)	Rearrangement peak		(2)	$C0_2/0_2$
	(3)	Base peak		(3)	Nitrogen/helium
	(4)	Molecular ion peak		(4)	Sulphur

- **71.** Nucleosides are the combination of:
 - (1) Nitrogenous base + pentose + phosphate
 - (2) Non- nitrogenous base + pentose
 - (3) Nitrogenous base + phosphate
 - (4) Nitrogenous base + pentose
- **72.** Fasting blood glucose level in prediabetic individuals is mg/100ml:
 - (1) 80 120
 - (2) 105 110
 - (3) 115 125
 - (4) 150 160
- **73.** One ATP = K Cal/ mole.
 - (1) 9
 - (2) 6.6
 - (3) 7.6
 - (4) 8.9
- 74. Fehling's solution B contains:
 - (1) KOH + potassium tartrate
 - (2) Na₂CO₃ + Rochelle salt
 - (3) KOH + Rochelle salt
 - (4) NaHCO₃ + Sodium tartrate

- 75. Pernicious anaemia is caused by:
 - (1) Inadequate intake of vitamin B₁
 - (2) Deficiency of ascorbic acid
 - (3) Absence of intrinsic factor of gastric juice
 - (4) Over production of extrinsic factor
- **76.** Wood's apparatus is mainly used in:
 - (1) Particle size determination
 - (2) Partition coefficient determination
 - (3) pH determination
 - (4) solubility determination
- **77.** The melting point of given substance can be determined by:
 - (1) Capillary melting
 - (2) Hot stage microscopy
 - (3) DSC
 - (4) All of the above
- **78.** Carr's index (%) is used to determine:
 - (1) Powder flow
 - (2) Particle size
 - (3) Elasticity
 - (4) Polymorphism

- 79. Oral tablets containing substance must be dissolved in water before administration to void gastric irritation:
 - (1) Starch
 - (2) Sodium chloride
 - (3) Stearic acid
 - (4) Sodium lauryl sulphate
- **80.** Capping of tablets can be eliminated by:
 - (1) Pre-compression
 - (2) Reducing the final compression rate
 - (3) Using flat punches
 - (4) All of the above
- 81. Lozenges are also known as:
 - (1) Pastilles
 - (2) Troches
 - (3) Buccal tablets
 - (4) Pessaries
- **82.** Emulsions made with Tweens are usually:
 - (1) Unstable
 - (2) W/O
 - (3) O/W
 - (4) Clear

- **83.** A liquid whose viscosity is increased when stress is applied is classed as which of the following materials?
 - (1) Dilatants
 - (2) Newtonian
 - (3) Plastic
 - (4) Pseudoplastic

84. Lanolin is:

- (1) Anhydrous wool fat
- (2) Hydrous wool fat
- (3) Lantrol
- (4) Atlas G-1794
- **85.** The particle size of the dispersed solid as a suspension is greater than:
 - (1) 0.1 mm
 - (2) 0.5 mm
 - (3) 0.2 mm
 - (4) 0.4 mm
 - **86.** According to USP standard, the fine particles should pass through:
 - (1) No. 20 sieve
 - (2) No. 40 sieve
 - (3) No. 80 sieve
 - (4) No. 120 sieve

87. Plastics are normally sterilized	91. Monophasic liquid dosage forms
increased when stress; diwaplied	ad deinclude tesedue
steam under pressure (I) Steam under pressure (I)	(1) Solutions berieved by sections
(2) Steam under vacuum	(2) Aromatic waters
(2) Newtonian (E)	(3) Tinctures done (1)
(4) Dry heat sterilization	(4) All of the above (5)
88. Contact angle is related to:	(3) Stearle acid
(1) Disintegration of tablet	92. pH of human tear is: Sodium lauryl surphate (4)
(2) Moisture content of tablet	ed can reblets can be
(0)	80. Capping of tablets can be eliminated by:
(3) Coefficient subjection of powder (8)	(1) Pre-compression
(4) Spreadability of ointment	(2) Reducing the (4) final
solid as noise equivalent to pKa at 17 28 solid as finding noise present than: (1) pH of 1 (2) pH of 7 (2) pH of 7 (3) pH of 7 (4) Half neutralization point (5)	93. The different types of water as specified by I.P. are: 94. (1) Purified water and W.F.I (2) W.F.I. and distilled water .18 (3) Purified water for injection
90. Amorphous forms of drugs are:	(4) Both (1) and (2) OUS (8)
nadt Asidulor sessus Allangual (Ltd., the fine partament laterial pass	(4) Pessaries of the different methods used for
(2) Usually more soluble than	82. Emulsion si gnitesti negoryqus are
crystal forms: 02 .oV (1)	(1) Rabbit test vllausu
(3) Practically insoluble (2)	(1) Unstable test (2) W/O
(4) Have same solubility as that	(3) Both (1) and (2) (8)
of crystal forms 1 .OV (+)	(4) None of the above
CPG-EE-2017/Pharmacy/225	14]

95.		a-ionic surfactant vesicles	98.	The	bacterial spores are destroyed
	rela	tes to:		by:	
	(1)	Liposomes		(1)	Dessication
	(2)	Niosomes		(0)	
	(3)	Nanoparticles		(2)	Phenol
	(4)	Both (1) and (2)		(3)	Boiling
				(4)	Autoclaving
96.		Gram's staining technique, the			
	Gra	m +ve cells appear:	99.	Kille	ed bacterial vaccine is:
	(1)	Blue		(1)	BCG
	(2)	Green		(2)	Diphtheria
	(3)	Red		(2)	Dipiterioria
	(4)	Violet		(3)	Pertusis
				(4)	Tetanus
97.	Tyr	ndalisation is :			
-	(1)	80°C for 20 min. on three	100	.For	dry heat sterilization holding
		successive days		tim	e is:
	(2)	100°C for 20 min. on three		(1)	160°C for 1 hour
		successive days		(2)	140°C for 3 hours
	(3)	60°C for 20 min. on three		(-)	
		successive days		(3)	150°C for 1/2 hour
	(4)	None of the above		(4)	160°C for 2 hours
				×	
			P1	8	

(Total No. of printed pages: 14)

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B

CPG-EE-2017

(PHARMACEUTICAL SCIENCES) SET-"C"

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SI

1.	Anticancer drug which crosses the blood brain barrier:	5.	- sear arrestrictic of choice for
	(1) Cisplatin		anaesthetizing gastric mucosa is:
	• • • • • • • • • • • • • • • • • • • •		(1) Oxethazaine
	(2) Vincristine		(2) Lidocaine
	(3) Vinblastine		(3) Dibucaine
	(4) Nitrosoureas		(4) Butamben
2.	Mode of action of actinomycin D is to prevent:	6.	Which of the following autacoids
	(1) RNA elongation		is implicated in migraine:
	(2) DNA synthesis		(1) Histamine
	(3) DNA elongation		(2) 5-HT
	(4) None of these		(3) Angiotensin
	() Mone of these		(4) Leukotrienes
3.	Which of the following is most effective in inhibiting gastric acid secretion?	7.	Prostaglandin, which has anti- aggregatory action on platelets:
	(1) Ranitidine		(1) PGG ₂
	(2) Famotidine		(2) PGI ₂
	(3) Omeprazole		(3) PGH ₂
	(4) Pirenzepine		(4) PGF ₂
4.	Which of the following purgative	8.	Antihistaminic agent which is
	is an anionic detergent?		ineffective orally:
	(1) Phenolphthalein		(1) Sodium chromoglycate
	(2) Liquid paraffin		(2) Salbutamol
	(3) Bisacodyl		(3) Theophylline
	(4) Dioctyl sulfosuccinate		(4) Orciprenaline
	[B-	-3]	CPG-EE-2017/Pharmacy/225.

- 9. All of the following are adverse effects of aminoglycoside antibiotics except:
 - (1) Neuromuscular blockade
 - (2) Hematuria
 - (3) Dermatitis
 - (4) Anaemia
- 10. Antiviral activity of zidovudine is due to:
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 - (3) Absence of intrinsic factor of gastric juice
 - (4) Over production of extrinsic factor

13

20. Capping of tablets can 16. Wood's apparatus is mainly used eliminated by: in: (1) Particle size determination (1) Pre-compression final coefficient (2) Reducing the (2) Partition determination compression rate (3) pH determination (3) Using flat punches (4) solubility determination (4) All of the above 17. The melting point of given 21. Monophasic liquid dosage forms substance can be determined by: include: Capillary melting (1)Solutions (1)Hot stage microscopy (2)Aromatic waters (2)DSC (3)**Tinctures** (3)All of the above (4)All of the above (4)18. Carr's index (%) is used to determine: 22. pH of human tear is: (1) Powder flow 7.2 (1)(2) Particle size 7.6 (2)(3) Elasticity 8.0 (3)(4) Polymorphism 4.6 (4)tablets containing **19.** Oral substance must be 23. The different types of water as before water specified by I.P. are: in dissolved to void gastric administration (1) Purified water and W.F.I irritation: (2) W.F.I and distilled water (1) Starch (3) Purified water, W.F.I. and (2) Sodium chloride sterile water for injection Stearic acid (3)

(4) Both (1) and (2)

Sodium lauryl sulphate

(4)

24. The different methods used for 28. The bacterial spores are destroyed pyrogen testing is: by: (1) Rabbit test (1) Dessication (2) LAL test (2) Phenol (3) Both (1) and (2) (4) None of the above Boiling (4)Autoclaving **25.** Non-ionic surfactant vesicles relates to: 29. Killed bacterial vaccine is: (1) Liposomes (1) BCG (2) Niosomes (3) Nanoparticles Diphtheria (2)(4) Both (1) and (2) (3) Pertusis 26. In Gram's staining technique, the Tetanus (4)Gram +ve cells appear: 30. For dry heat sterilization holding (1) Blue time is: (2) Green (3) Red 160°C for 1 hour (1)(4) Violet (2) 140°C for 3 hours **27.** Tyndalisation is: (3)150°C for 1/2 hour (4) 160°C for 2 hours (1) 80°C for 20 min. on three 31. Which of the following alkaloids successive days are founds as salts of meconic (2) 100°C for 20 min. on three acid? successive days (1) Ergot alkaloids (3) 60°C for 20 min. on three (2) Rauwolfia alkaloids successive days

(4) None of the above

(3) Tropane alkaloids

(4) Opium alkaloids

- **32.** Indian belladonna is : (1) Atropa belladonna
 - (2) Atropa belladonna var acuminate
 - (3) Atropa fastusa
 - (4) Atropa succirubra
- 33. Umbelliferous fruits are:
 - (1) Schizocarp
 - (2) Pericarp
 - (3) Endocarp
 - (4) Mesocarp
- **34.** Cascara bark to be used as drug is collected one year before use because:
 - (1) Fresh bark contains anthranol derivatives which have emetic and griping action
 - (2) Storing for one year oxidizes anthranol to less irritant anthraquinone derivatives
 - (3) Both (1) and (2)
 - (4) None of the above
- **35.** Bavchi consists of dried ripe fruits of :
 - (1) Pruncus amygdalus
 - (2) Ammi visnaga
 - (3) Psoralea corylifolia
 - (4) Picrorhiza kurrroa

- **36.** For isolation of protoplasts from bacterial cell following enzyme is used:
 - (1) Pectinase
 - (2) Chitinase
 - (3) Cellulase
 - (4) Lysozyme
- **37.** Tropane alkaloids are biosynthesized from :
 - (1) Ornithine
 - (2) Tryptophan
 - (3) Tyrosine
 - (4) Phenylalanine
- **38.** Which of the following ring system is present in bioflavanoids?
 - (1) Anthraquinone
 - (2) Steroidal
 - (3) Indole
 - (4) Phenylchromane
- 39. Isothiocyanate glycosides are:
 - (1) also known as glucosinolates
 - (2) S- glycosides
 - (3) found only in dicot plants
 - (4) All of the above

- 40. Tropane ring is composed of:
 - (1) Imidazole and pyridine ring
 - (2) Pyrrolidine and piperidine ring
 - (3) Pyrolidine and piperazine ring
 - (4) Imidazole and indole ring
- **41.** p-nitro benzoic acid is the convenient starting material for the synthesis of:
 - (1) Procaine
 - (2) Xylocaine
 - (3) Piperacaine
 - (4) Etidocaine
 - **42.** The IUPAC name of bupivacaine, a local anaesthetic is:
 - (1) butyl-N-(2,6 diethyl phenyl)-2pyridine carboxamide
 - (2) 1-butyl-N-(2,6 dimethyl phenyl)-2-piperidine carboxamide
 - (3) butyl-N-(2,6 dimethyl benzyl)-2-piperidine carboxamide
 - (4) butyl-N-(2,6 dimethyl benzyl)2-pyridine carboxamide

- **43.** Methylation of nitrogen at position number 1 in barbituric acid lipid solubility and duration of action :
 - (1) Increases, shortens
 - (2) Increases, increases
 - (3) Shorts, shortens
 - (4) Shortens, increases
- **44.** Morphine and Heroin differ from each other in respect of :
 - (1) Methyl group on nitrogen
 - (2) Acetyl group at C1 and C6
 - (3) Absence of double bond between C₄ and C₆
 - (4) Absence of D-ring
 - **45.** 4[4-(4-chlorophenyl)-4-hydroxy piperidino]4'fluoro butyrophenone is the IUPAC name of :
 - (1) Diloxanide
 - (2) Haloperidol
 - (3) Molindone
 - (4) Droperidol
 - **46.** Oxazepam, a psychoneurotic has lower chances of side effects and reduced toxicity due to:
 - (1) Aromatic hydroxylation
 - (2) Ring oxidation
 - (3) Conjugation of 3-OH group
 - (4) N-demethylation

- **47.** Saturation of 4,5 double bond in 1,4 benzodiazepine result in compound with:
 - (1) Reduced activity
 - (2) Potent activity
 - (3) Intermediate activity
 - (4) No activity
- **48.** Carbachol is an ester of amino formic acid and it is prepared by direct combination of 2-chloro ethyl carbamate with:
 - (1) Triethylamine
 - (2) Diethylamine
 - (3) Methylamine
 - (4) Aniline
 - **49.** Condensation of N-m-hydroxy phenyl-N-p-tolyl glycine with ethylene diamine gives :
 - (1) Tolazoline
 - (2) Phentolamine
 - (3) Prazocin
 - (4) Phenoxy benzamine
 - **50.** Primaquine, an anti-malarial drug is synthesized starting from :
 - (1) Phenol
 - (2) Anisole
 - (3) Hexamine
 - (4) Pentamine

- **51.** The near ultraviolet region ranges from:
 - (1) 100 300 m_µ
 - (2) 100 400 m_µ
 - (3) 200 400 m_µ
 - (4) 200 350 mμ
- **52.** Electronic transitions in organic molecules involve:
 - (1) Transition of σ electrons
 - (2) Transition of n electrons
 - (3) Transition of π electrons
 - (4) All of the above
- **53.** The commonly used detector in UV spectrophotometer is:
 - (1) Photomultiplier tube
 - (2) Thermocouple
 - (3) Bolometer
 - (4) Littrow prism
- **54.** The IR radiation source, Globar is chemically:
 - (1) Silicon carbide
 - (2) Silicon disulphide
 - (3) Zirconium oxide
 - (4) None of the above

- **55.** O-H stretching vibrations in alcohols and phenols ranges from :
 - (1) $3550 3450 \text{ cm}^{-1}$
 - (2) 3400 3200 cm⁻¹
 - (3) 3650 3590 cm⁻¹
 - (4) 3570 3450 cm⁻¹
- **56.** The largest peak in the mass spectrum is known as:
 - (1) Metastable peak
 - (2) Rearrangement peak
 - (3) Base peak
 - (4) Molecular ion peak
- **57.** The reference electrode in potentiometric titrations is:
 - (1) Noble metal electrode
 - (2) Dropping mercury electrode
 - (3) Saturated calomel electrode
 - (4) Platinum electrodes
- 58. The pressure used in HPLC is:
 - (1) 1000 3000 psi
 - (2) 1000 5000 psi
 - (3) 1000 6000 psi
 - (4) 2000 6000 psi

- **59.** The commonly used binder in TLC is:
 - (1) Calcium carbonate
 - (2) Calcium bisulphate
 - (3) Calcium sulphate
 - (4) Calcium hydroxide
- **60.** The inert gas used in gas chromatography is:
 - (1) Hydrogen
 - (2) $C0_2/0_2$
 - (3) Nitrogen/helium
 - (4) Sulphur
- **61.** The ginsenosides have been described and designated according to their:
 - (1) Activity
 - (2) Ash value
 - (3) Rf value
 - (4) Uses
- **62.** Clove oil is used for temporary filling of dental cavities, along with:
 - (1) Zinc oxide
 - (2) Potassium hydroxide
 - (3) Potassium iodide
 - (4) Sodium chloride

63. Ginseng belongs to the chemical 67. Dissociative anaesthesia is seen with: class of: Halothane (1)(1) Alkaloids Ketamine (2)(2) Glycosides Choloroform (3)(3) Saponins (4)Nitrous oxide (4) Volatile oils 68. Blood glucose levels in diabetes **64.** All of the following contains indole may be lowered by: moiety except: (1) Codeine administration (1) Strychnine (2) Insulin administration (2) Reserpine (3) Subcutaneous injection of (3) Physostigmine adrenaline (4) Atropine (4) All of the above 65. C-24 glycosides shows the **69.** Drug of choice in status following test: epilepticus in children is: (1) Baljet test Diazepam (1) (2) Legal test (2) Phenobarbitone (3) Liberman's sterol test (3) Carbamazepine (4) All of the above (4) Phenytoin 66. Buspirone is mainly used as: **70.** The only contraindication pentaerythritol tetranitrate is: (1)Antianxiety (1) Acute MI Antipsychotic (2)(2) Hyperthyroidism Antidepressant (3)(3) Angina pectoris (4) Antimanic

(4) Epilepsy

71.	Ephedra	consists	of	75.	The	amount of alkaloids present
		of E	phedra		in R	auwolfia ranges between :
	sinica.				(1)	0.5-1.5%
	(1) dried latex				(2)	0.5-2%
	(2) dried aeria	al parts			(3)	0.7-2.4%
	(3) dried roots	5			(4)	0.7-3.5%
	(4) dried leave				(- /	
72.	Indian colchic	um is :		76.		ot is produced during:
	(1) Colchicum	autumnale			(1)	Honeydew stage
	(2) Colchicum				(2)	Sclerotium stage
	(3) Colchicum				(3)	Ascospore
	(4) Colchicum				(4)	Sphaecelia stage
74	(3) Green-bl	with alkali seescence the fluorescence the fluorescence the fluorescence the fluorescence the alkali seescence the fluorescence the alkali seescence the fluorescence the fluore	ce nce sents:		(1) (2) (3) (4) 3. Or class (1) (2)) Quinoline alkaloids) Isoquinoline alkaloids

79.		is used as			liquid whose viscosity is
		protectant in cryopreserved			eased when stress is applied classed as which of the
	tissı	ue culture.			wing materials?
	(1)	Auxin		(1)	Dilatants
	(2)	Vitamin - B ₆		(2)	Newtonian
	(3)	Liquid nitrogen		(3)	Plastic
	(4)	DMSO		(4)	Pseudoplastic
80.	Sch	izolysigenous oil glands are	84.	Lano	olin is :
	pres	sent in :		(1)	Anhydrous wool fat
	(1)	Petal		(2)	Hydrous wool fat
	(2)	Style		(3)	Lantrol
	(3)	Hypanthium		(4)	Atlas G-1794
	(4)	Crown	85.	The	particle size of the dispersed
					d as a suspension is greater
81.	Loz	enges are also known as :		tha	n:
	(1)	Pastilles		(1)	0.1 mm
	(2)	Troches		(2)	0.5 mm
	(3)	Buccal tablets		(3)	0.2 mm
	(4)	Pessaries		(4)	0.4 mm
82.	Em	ulsions made with Tweens are	86.	Acc	cording to USP standard, the particles should pass
u .	usı	ually:		thr	ough :
	(1)	Unstable		(1)	No. 20 sieve
	(2)	W/O		(2)	No. 40 sieve
	(3)	O/W		(3)	No. 80 sieve
	(4)	Clear		(4)	No. 120 sieve
		[B	-13]		CPG-EE-2017/Pharmacy/225.

- **87.** Plastics are normally sterilized with:
 - (1) Steam under pressure
 - (2) Steam under vacuum
 - (3) Ethylene oxide
 - (4) Dry heat sterilization
- 88. Contact angle is related to:
 - (1) Disintegration of tablet
 - (2) Moisture content of tablet
 - (3) Coefficient of friction of powder
 - (4) Spreadability of ointment
- 89. pH is equivalent to pKa at:
 - (1) Neutralization point
 - (2) pH of 1
 - (3) pH of 7
 - (4) Half neutralization point
- 90. Amorphous forms of drugs are:
 - (1) Usually less soluble than crystal forms
 - (2) Usually more soluble than crystal forms
 - (3) Practically insoluble
 - (4) Have same solubility as that of crystal forms

- 91. Dopamine is:
 - (1) α and β antagonist
 - (2) α and β agonist
 - (3) α agonist
 - (4) β~agonist
- **92.** Which of the following is most likely to cause tinnitus in high doses?
 - (1) Ibuprofen
 - (2) Mefenamic acid
 - (3) Aspirin
 - (4) Indomethacin
- **93.** Ketorolac trimethamine is useful as:
 - (1) A bronchodilator
 - (2) An hypertensive
 - (3) Non-narcotic non-steroidal analgesic
 - (4) Narcotic analgesic
- **94.** Meperidine is popularly known as:
 - (1) Morphine
 - (2) Pentazocine
 - (3) Pethidine
 - (4) Emetine

- **95.** Bromocriptine is not used in :
 - (1) Shock
 - (2) Suppression of lactation
 - (3) Parkinsonism
 - (4) Prolactinourea
- **96.** Which drug should not be given along with levodopa?
 - (1) Carbidopa
 - (2) MAO inhibitors
 - (3) Atropine
 - (4) Bensarazide
- **97.** Which of the following is anorectic agent?
 - (1) Dobutamine
 - (2) Methoxamine
 - (3) Fenfluramine
 - (4) Mephenteramine

- **98.** 6 Mercaptopurine potentiates action of :
 - (1) Cyclophosphamide
 - (2) Allopurinol
 - (3) Methotrexate
 - (4) 5-FU
- **99.** Which cytotoxic drug inhibits cellular division in mitosis (i.e. metaphase arrest):
 - (1) Vincristine
 - (2) 5-FU
 - (3) Methotrexate
 - (4) Cyclophosphamide
- 100. Drugs that may cause megaloblastic anaemia include each of the following except:
 - (1) Methotrexate
 - (2) Thiabendazole
 - (3) Phenytoin
 - (4) Cytarabine

(Total No. of printed pages: 14)

Sr. No. 103.20

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CPG-EE-2017

(PHARMACEUTICAL SCIENCES) SET-"C"

Time: 11/2 Hours	Total Questions: 100	Max. Marks: 100
Roll No (in figure	2)	(in words)
Name:	Date of Birth :	2 ¹ a 1
Father's Name :	Mother's Name :	
Date of Examination	······································	
(Signature of the Candidate)	(Signa	ture of the Invigilator

CANDIDATES MUST READ THE FOLLOWING INFORMATION/ INSTRUCTIONS BEFORE STARTING THE QUESTION PAPER.

- 1. All questions are compulsory and carry equal marks. The candidates are required to attempt all questions.
- 2. The candidates must return the Question book-let as well as OMR answer-sheet to the Invigilator concerned before leaving the Examination Hall, failing which a case of use of unfair-means / misbehaviour will be registered against him / her, in addition to lodging of an FIR with the police. Further the answer-sheet of such a candidate will not be evaluated.
- 3. In case there is any discrepancy in any question(s) in the Question Booklet, the same may be brought to the notice of the Controller of Examinations in writing **within two hours** after the test is over. No such complaint(s) will be entertained thereafter.
- 4. The candidate MUST NOT do any rough work or writing in the OMR Answer-Sheet. Rough work, if any, may be done in the question book-let itself. Answers MUST NOT be ticked in the Question book-let.
- 5. Use only Black or Blue BALL POINT PEN of good quality in the OMR Answer-Sheet.
- 6. There will be <u>Negative</u> marking. Each correct answer will be awarded one full mark and each incorrect answer will be negatively marked for which the candidate will get 1/4 discredit. Cutting, erasing, overwriting and more than one answer in OMR Answer-Sheet will be treated as incorrect answer.
- 7. BEFORE ANSWERING THE QUESTIONS, THE CANDIDATES SHOULD ENSURE THAT THEY HAVE BEEN SUPPLIED CORRECT AND COMPLETE BOOK-LET. COMPLAINTS, IF ANY, REGARDING MISPRINTING ETC. WILL NOT BE ENTERTAINED 30 MINUTES AFTER STARTING OF THE EXAMINATION.

SI

1.	Monophasic liquid dosage forms include:	5.	Non-ionic surfactant vesicles relates to :		
	(1) Solutions		(1) Liposomes		
	(2) Aromatic waters		(2) Niosomes		
	(3) Tinctures		(3) Nanoparticles		
	(4) All of the above		(4) Both (1) and (2)		
2.	pH of human tear is:	6.	In Gram's staining technique, the Gram +ve cells appear:		
	(1) 7.2		(1) Blue		
	(2) 7.6		(2) Green		
	(3) 8.0		(3) Red		
	(4) 4.6		(4) Violet		
3.	The different types of water as specified by I.P. are:	7.	Tyndalisation is: (1) 80°C for 20 min. on three		
	(1) Purified water and W.F.I		successive days		
	(2) W.F.I and distilled water		(2) 100°C for 20 min. on three successive days		
	(3) Purified water, W.F.I. and sterile water for injection		(3) 60°C for 20 min. on three successive days		
	(4) Both (1) and (2)		(4) None of the above		
4.	The different methods used for pyrogen testing is:	8.	The bacterial spores are destroyed by:		
	(1) Rabbit test		(1) Dessication		
	(2) LAL test		(2) Phenol		
	(3) Both (1) and (2)		(3) Boiling		
	(4) None of the above		(4) Autoclaving		
	D-3]	CPG-EE-2017/Pharmacy/225		

Killed bacterial vaccine is: 13. Ketorolac trimethamine is useful 9. as: (1)BCG (1) A bronchodilator Diphtheria (2)(2) An hypertensive Pertusis (3)(3) Non-narcotic non-steroidal (4)Tetanus analgesic (4) Narcotic analgesic 10. For dry heat sterilization holding time is: 14. Meperidine is popularly known 160°C for 1 hour (1)as: (2)140°C for 3 hours Morphine (1)150°C for 1/2 hour (3)Pentazocine (2)160°C for 2 hours (4)Pethidine (3)(4) Emetine 11. Dopamine is: α and β antagonist 15. Bromocriptine is not used in: (1)α and β agonist (1) Shock (2)(2) Suppression of lactation α - agonist (3)(3) Parkinsonism R~agonist (4)(4) Prolactinourea 12. Which of the following is most likely to cause tinnitus in high 16. Which drug should not be given along with levodopa? doses? (1) Carbidopa (1) Ibuprofen (2) MAO inhibitors (2) Mefenamic acid (3) Atropine (3) Aspirin (4) Bensarazide (4) Indomethacin [D-4] CPG-EE-2017/Pharmacy/225

17.	Which of the following is anorectic agent?	21.	Nucleosides are the combination of:		
	(1) Dobutamine		(1)	Nitrogenous base + pentose +	
	(2) Methoxamine			phosphate	
	(3) Fenfluramine		(2)	Non- nitrogenous base +	
	(4) Mephenteramine			pentose	
18.	6 - Mercaptopurine potentiates action of:		137 8	Nitrogenous base + phosphate Nitrogenous base + pentose	
	(1) Cyclophosphamide	22.	Fas	ting blood glucose level in	
	(2) Allopurinol		-	diabetic individuals is	
	(3) Methotrexate		mg/	/100ml:	
	(4) 5-FU		(1)	80 – 120	
19.	Which cytotoxic drug inhibits		(2)	105 – 110	
	cellular division in mitosis (i.e. metaphase arrest): (1) Vincristine		(3)	115 - 125	
			(4)	150 – 160	
			One ATP = K Cal/ mole.		
			(1)	9	
			(2)	6.6	
			(3)	7.6	
20.	Drugs that may cause		(4)	8.9	
	megaloblastic anaemia include				
	each of the following except:	24.	Feh	ling's solution B contains :	
	(1) Methotrexate		(1)	KOH + potassium tartrate	
	(2) Thiabendazole		(2)	Na ₂ CO ₃ + Rochelle salt	
	(3) Phenytoin		(3)	KOH + Rochelle salt	
	(4) Cytarabine		(4)	NaHCOa + Sodium tartrate	

(4) NaHCO₃ + Sodium tartrate

- 25. Pernicious anaemia is caused by:
 - (1) Inadequate intake of vitamin B_1
 - (2) Deficiency of ascorbic acid
 - (3) Absence of intrinsic factor of gastric juice
 - (4) Over production of extrinsic factor
- **26.** Wood's apparatus is mainly used in:
 - (1) Particle size determination
 - (2) Partition coefficient determination
 - (3) pH determination
 - (4) solubility determination
- **27.** The melting point of given substance can be determined by :
 - (1) Capillary melting
 - (2) Hot stage microscopy
 - (3) DSC
 - (4) All of the above
- **28.** Carr's index (%) is used to determine:
 - (1) Powder flow
 - (2) Particle size
 - (3) Elasticity
 - (4) Polymorphism

- 29. Oral tablets containing substance must be dissolved in water before administration to void gastric irritation:
 - (1) Starch
 - (2) Sodium chloride
 - (3) Stearic acid
 - (4) Sodium lauryl sulphate
- **30.** Capping of tablets can be eliminated by:
 - (1) Pre-compression
 - (2) Reducing the final compression rate
 - (3) Using flat punches
 - (4) All of the above
- **31.** The ginsenosides have been described and designated according to their:
 - (1) Activity
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- **32.** Clove oil is used for temporary filling of dental cavities, along with:
 - (1) Zinc oxide
 - (2) Potassium hydroxide
 - (3) Potassium iodide
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- **33.** Ginseng belongs to the chemical class of:
 - (1) Alkaloids
 - (2) Glycosides
 - (3) Saponins
 - (4) Volatile oils
- **34.** All of the following contains indole moiety except :
 - (1) Strychnine
 - (2) Reserpine
 - (3) Physostigmine
 - (4) Atropine
- **35.** C-24 glycosides shows the following test:
 - (1) Baljet test
 - (2) Legal test
 - (3) Liberman's sterol test
 - (4) All of the above
- **36.** Buspirone is mainly used as:
 - (1) Antianxiety
 - (2) Antipsychotic
 - (3) Antidepressant
 - (4) Antimanic
- **37.** Dissociative anaesthesia is seen with:
 - (1) Halothane
 - (2) Ketamine
 - (3) Choloroform
 - (4) Nitrous oxide

- **38.** Blood glucose levels in diabetes may be lowered by :
 - (1) Codeine administration
 - (2) Insulin administration
 - (3) Subcutaneous injection of adrenaline
 - (4) All of the above
- **39.** Drug of choice in status epilepticus in children is :
 - (1) Diazepam
 - (2) Phenobarbitone
 - (3) Carbamazepine
 - (4) Phenytoin
- **40.** The only contraindication of pentaerythritol tetranitrate is :
 - (1) Acute MI
 - (2) Hyperthyroidism
 - (3) Angina pectoris
 - (4) Epilepsy
- **41.** The near ultraviolet region ranges from :
 - (1) 100 300 mμ
 - (2) 100 400 mμ
 - (3) 200 400 mμ
 - (4) 200 350 mμ

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 - (2) 100 400 mμ
 - (3) 200 400 mμ
 - (4) 200 350 mμ

- **42.** Electronic transitions in organic molecules involve:
 - (1) Transition of σ electrons
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- **43.** The commonly used detector in UV spectrophotometer is:
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 - (3) Zirconium oxide
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 - (2) 3400 3200 cm⁻¹
 - (3) 3650 3590 cm⁻¹
 - (4) 3570 3450 cm⁻¹

- **46.** The largest peak in the mass spectrum is known as:
 - (1) Metastable peak
 - (2) Rearrangement peak
 - (3) Base peak
 - (4) Molecular ion peak
- **47.** The reference electrode in potentiometric titrations is:
 - (1) Noble metal electrode
 - (2) Dropping mercury electrode
 - (3) Saturated calomel electrode
 - (4) Platinum electrodes
- **48.** The pressure used in HPLC is:
 - (1) 1000 3000 psi
 - (2) 1000 5000 psi
 - (3) 1000 6000 psi
 - (4) 2000 6000 psi
- **49.** The commonly used binder in TLC is:
 - (1) Calcium carbonate
 - (2) Calcium bisulphate
 - (3) Calcium sulphate
 - (4) Calcium hydroxide

- **50.** The inert gas used in gas chromatography is:
 - (1) Hydrogen
 - (2) CO_2/O_2
 - (3) Nitrogen/helium
 - (4) Sulphur
- 51. Lozenges are also known as:
 - (1) Pastilles
 - (2) Troches
 - (3) Buccal tablets
 - (4) Pessaries
- **52.** Emulsions made with Tweens are usually:
 - (1) Unstable
 - (2) W/O
 - (3) O/W
 - (4) Clear
- **53.** A liquid whose viscosity is increased when stress is applied is classed as which of the following materials?
 - (1) Dilatants
 - (2) Newtonian
 - (3) Plastic
 - (4) Pseudoplastic

- 54. Lanolin is:
 - (1) Anhydrous wool fat
 - (2) Hydrous wool fat
 - (3) Lantrol
 - (4) Atlas G-1794
- **55.** The particle size of the dispersed solid as a suspension is greater than:
 - (1) 0.1 mm
 - (2) 0.5 mm
 - (3) 0.2 mm
 - (4) 0.4 mm
- **56.** According to USP standard, the fine particles should pass through:
 - (1) No. 20 sieve
 - (2) No. 40 sieve
 - (3) No. 80 sieve
 - (4) No. 120 sieve
- **57.** Plastics are normally sterilized with:
 - (1) Steam under pressure
 - (2) Steam under vacuum
 - (3) Ethylene oxide
 - (4) Dry heat sterilization

58. Contact angle is related to: 62. Mode of action of actinomycin D (1) Disintegration of tablet is to prevent: (1) RNA elongation (2) Moisture content of tablet (2)DNA synthesis (3) Coefficient of friction of powder (3)DNA elongation (4) Spreadability of ointment (4)None of these **59.** pH is equivalent to pKa at: 63. Which of the following is most effective in inhibiting gastric acid (1)Neutralization point secretion? (2)pH of 1 (1)Ranitidine (3)pH of 7 (2)Famotidine Half neutralization point (4)(3)Omeprazole 60. Amorphous forms of drugs are: (4)Pirenzepine (1) Usually less soluble than 64. Which of the following purgative crystal forms is an anionic detergent? (2) Usually more soluble than (1)Phenolphthalein crystal forms (2)Liquid paraffin (3) Practically insoluble (3)Bisacodyl (4) Have same solubility as that of crystal forms (4)Dioctyl sulfosuccinate 61. Anticancer drug which crosses 65. Local anesthetic of choice for the blood brain barrier: anaesthetizing gastric mucosa is: (1)Cisplatin Oxethazaine (1)(2)Vincristine (2)Lidocaine

Vinblastine

Nitrosoureas

(3)

(4)

(3)

(4)

Dibucaine

Butamben

- **66.** Which of the following autacoids is implicated in migraine:
 - (1) Histamine
 - (2) 5-HT
 - (3) Angiotensin
 - (4) Leukotrienes
- **67.** Prostaglandin, which has antiaggregatory action on platelets:
 - (1) PGG₂
 - (2) PGI₂
 - (3) PGH₂
 - (4) PGF₂
- **68.** Antihistaminic agent which is ineffective orally:
 - (1) Sodium chromoglycate
 - (2) Salbutamol
 - (3) Theophylline
 - (4) Orciprenaline
- **69.** All of the following are adverse effects of aminoglycoside antibiotics except:
 - (1) Neuromuscular blockade
 - (2) Hematuria
 - (3) Dermatitis
 - (4) Anaemia

- **70.** Antiviral activity of zidovudine is due to:
 - (1) Inhibition of viral RNA polymerase
 - (2) Inhibition of viral protein synthesis
 - (3) Inhibition of viral dependent DNA polymerase
 - (4) All of the above
- **71.** p-nitro benzoic acid is the convenient starting material for the synthesis of:
 - (1) Procaine
 - (2) Xylocaine
 - (3) Piperacaine
 - (4) Etidocaine
- **72.** The IUPAC name of bupivacaine, a local anaesthetic is:
 - (1) butyl-N-(2,6 diethyl phenyl)-2pyridine carboxamide
 - (2) 1-butyl-N-(2,6 dimethyl phenyl)-2-piperidine carboxamide
 - (3) butyl-N-(2,6 dimethyl benzyl)-2-piperidine carboxamide
 - (4) butyl-N-(2,6 dimethyl benzyl)-2-pyridine carboxamide

- **73.** Methylation of nitrogen at position number 1 in barbituric acid lipid solubility and duration of action :
 - (1) Increases, shortens
 - (2) Increases, increases
 - (3) Shorts, shortens
 - (4) Shortens, increases
- **74.** Morphine and Heroin differ from each other in respect of:
 - (1) Methyl group on nitrogen
 - (2) Acetyl group at C1 and C6
 - (3) Absence of double bond between C₄ and C₆
 - (4) Absence of D-ring
- **75.** 4[4-(4-chlorophenyl)-4-hydroxy piperidino]4'fluoro butyrophenone is the IUPAC name of :
 - (1) Diloxanide
 - (2) Haloperidol
 - (3) Molindone
 - (4) Droperidol
- **76.** Oxazepam, a psychoneurotic has lower chances of side effects and reduced toxicity due to:
 - (1) Aromatic hydroxylation
 - (2) Ring oxidation
 - (3) Conjugation of 3-OH group
 - (4) N-demethylation

- **77.** Saturation of 4,5 double bond in 1,4 benzodiazepine result in compound with:
 - (1) Reduced activity
 - (2) Potent activity
 - (3) Intermediate activity
 - (4) No activity
- **78.** Carbachol is an ester of amino formic acid and it is prepared by direct combination of 2-chloro ethyl carbamate with:
 - (1) Triethylamine
 - (2) Diethylamine
 - (3) Methylamine
 - (4) Aniline
- **79.** Condensation of N-m-hydroxy phenyl-N-p-tolyl glycine with ethylene diamine gives :
 - (1) Tolazoline
 - (2) Phentolamine
 - (3) Prazocin
 - (4) Phenoxy benzamine
- **80.** Primaquine, an anti-malarial drug is synthesized starting from :
 - (1) Phenol
 - (2) Anisole
 - (3) Hexamine
 - (4) Pentamine

- **81.** Which of the following alkaloids are founds as salts of meconic acid?
 - (1) Ergot alkaloids
 - (2) Rauwolfia alkaloids
 - (3) Tropane alkaloids
 - (4) Opium alkaloids
- 82. Indian belladonna is:
 - (1) Atropa belladonna
 - (2) Atropa belladonna var acuminate
 - (3) Atropa fastusa
 - (4) Atropa succirubra
- 83. Umbelliferous fruits are:
 - (1) Schizocarp
 - (2) Pericarp
 - (3) Endocarp
 - (4) Mesocarp
- **84.** Cascara bark to be used as drug is collected one year before use because:
 - Fresh bark contains anthranol derivatives which have emetic and griping action
 - (2) Storing for one year oxidizes anthranol to less irritant anthraquinone derivatives
 - (3) Both (1) and (2)
 - (4) None of the above

- **85.** Bavchi consists of dried ripe fruits of:
 - (1) Pruncus amygdalus
 - (2) Ammi visnaga
 - (3) Psoralea corylifolia
 - (4) Picrorhiza kurrroa
- **86.** For isolation of protoplasts from bacterial cell following enzyme is used:
 - (1) Pectinase
 - (2) Chitinase
 - (3) Cellulase
 - (4) Lysozyme
- **87.** Tropane alkaloids are biosynthesized from :
 - (1) Ornithine
 - (2) Tryptophan
 - (3) Tyrosine
 - (4) Phenylalanine
- **88.** Which of the following ring system is present in bioflavanoids?
 - (1) Anthraquinone
 - (2) Steroidal
 - (3) Indole
 - (4) Phenylchromane

89. Isothiocyanate glycosides are:(1) also known as glucosinolates(2) S- glycosides(3) found only in dicot plants(4) All of the above	 93. Coumarin present in cassia oil, when treated with alkali shows a: (1) Red fluorescence (2) Deep blue fluorescence (3) Green-blue fluorescence (4) Green fluorescence
90. Tropane ring is composed of:(1) Imidazole and pyridine ring(2) Pyrrolidine and piperidine ring	94. Physiological "ash" represents:(1) Water soluble material(2) Material derived from the
 (3) Pyrolidine and piperazine ring (4) Imidazole and indole ring 91. Ephedra consists of of Ephedra sinica. (1) dried latex 	plant itself (3) Sand and siliceous earth (4) All of the above 95. The amount of alkaloids present in Rauwolfia ranges between: (1) 0.5-1.5%
(2) dried aerial parts(3) dried roots(4) dried leaves	(2) 0.5-2% (3) 0.7-2.4% (4) 0.7-3.5%
92. Indian colchicum is :(1) Colchicum autumnale(2) Colchicum album(3) Colchicum luteum	 96. Ergot is produced during: (1) Honeydew stage (2) Sclerotium stage (3) Ascospore (4) Sphaecelia stage
(4) Colchicum secundum CPG-EE-2017/Pharmacy/225	(4) Sphaecella stage

97.	Ergotoxine is a mixture of:	99.		is used as
	(1) 2 alkaloids		cryc	protectant in cryopreserved
	(2) 3 alkaloids		tiss	ue culture.
	(3) 4 alkaloids		(1)	Auxin
	(4) 6 alkaloids		(2)	Vitamin - B ₆
			(3)	Liquid nitrogen
98.	Opium belongs to the chemical class of:		(4)	DMSO
	(1) Indole alkaloids	100.	Schi	zolysigenous oil glands are
	(2) Quinoline alkaloids	§	pres	ent in :
	(3) Isoquinoline alkaloids		(1)	Petal
	(4) Tropane alkaloids	9	(2)	Style
	, , , , , , , , , , , , , , , , , , , ,		(3)	Hypanthium
			(4)	Crown
	9			

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C

CPG-EE-2017

(PHARMACEUTICAL SCIENCES) SET-"C"

	SEI-C
	Time: 11/2 Hours Total Questions: 100 Max. Marks: 100
	Roll No (in figure) (in words)
	Name:
	Father's Name : Mother's Name :
]	Date of Examination
-	(Signature of the Candidate) (Signature of the Invigilator)
7	CANDIDATES MUST READ THE FOLLOWING INFORMATION/ INSTRUCTIONS BEFORE STARTING THE QUESTION PAPER.
1	All questions are compulsory and carry equal marks. The candidates are required to attempt all questions.
2	2. The candidates must return the Question book-let as well as OMR answer-sheet to the Invigilator concerned before leaving the Examination Hall, failing which a case of use of unfair-means / misbehaviour will be registered against him / her, in addition to lodging of an FIR with the police. Further the answer-sheet of such a candidate will not be evaluated.
3	
4.	
5.	Use only Black or Blue BALL POINT PEN of good quality in the OMR Answer-Sheet.
6.	There will be <u>Negative</u> marking. Each correct answer will be awarded one full mark and each incorrect answer will be negatively marked for which the candidate will get 1/4 discredit. Cutting, erasing, overwriting and more than one answer in OMR Answer-Sheet will be treated as incorrect answer.
7.	BEFORE ANSWERING THE QUESTIONS, THE CANDIDATES SHOULD ENSURE THAT THEY HAVE BEEN SUPPLIED CORRECT AND COMPLETE BOOK-LET. COMPLAINTS, IF ANY, REGARDING MISPRINTING ETC. WILL NOT BE ENTERTAINED 30 MINUTES AFTER STARTING OF THE EXAMINATION.



glycosides shows the C-24 been 5. ginsenosides have The 1. designated following test: described and according to their: (1) Baljet test (1) Activity (2) Legal test (3) Liberman's sterol test (2) Ash value (4) All of the above (3) Rf value (4) Uses Buspirone is mainly used as: 6. Clove oil is used for temporary Antianxiety 2. (1)filling of dental cavities, along Antipsychotic (2)with: Antidepressant (3)(1) Zinc oxide Antimanic (4)(2) Potassium hydroxide (3) Potassium iodide Dissociative anaesthesia is seen 7. (4) Sodium chloride with: Halothane (1)Ginseng belongs to the chemical 3. Ketamine class of: (2)Choloroform (1) Alkaloids (3)Nitrous oxide (2) Glycosides (4)(3) Saponins Blood glucose levels in diabetes 8. (4) Volatile oils may be lowered by: (1) Codeine administration All of the following contains indole moiety except: (2) Insulin administration (1) Strychnine (3) Subcutaneous injection (2) Reserpine adrenaline (3) Physostigmine (4) All of the above (4) Atropine

- **9.** Drug of choice in status epilepticus in children is :
 - (1) Diazepam
 - (2) Phenobarbitone
 - (3) Carbamazepine
 - (4) Phenytoin
- **10.** The only contraindication of pentaerythritol tetranitrate is :
 - (1) Acute MI
 - (2) Hyperthyroidism
 - (3) Angina pectoris
 - (4) Epilepsy
- **11.** p-nitro benzoic acid is the convenient starting material for the synthesis of :
 - (1) Procaine
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- 21. Lozenges are also known as:
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- **22.** Emulsions made with Tweens are usually:
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 - (3) O/W
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- 23. A liquid whose viscosity is increased when stress is applied is classed as which of the following materials?
 - (1) Dilatants
 - (2) Newtonian
 - (3) Plastic
 - (4) Pseudoplastic
 - 24. Lanolin is:
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 - (2) Hydrous wool fat
 - (3) Lantrol
 - (4) Atlas G-1794

- **25.** The particle size of the dispersed solid as a suspension is greater than:
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 - (4) 0.4 mm
- **26.** According to USP standard, the fine particles should pass through:
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 - (2) Steam under vacuum
 - (3) Ethylene oxide
 - (4) Dry heat sterilization
- 28. Contact angle is related to:
 - (1) Disintegration of tablet
 - (2) Moisture content of tablet
 - (3) Coefficient of friction of powder
 - (4) Spreadability of ointment

- 29. pH is equivalent to pKa at:
 - (1) Neutralization point
 - (2) pH of 1
 - (3) pH of 7
 - (4) Half neutralization point
- 30. Amorphous forms of drugs are:
 - (1) Usually less soluble than crystal forms
 - (2) Usually more soluble than crystal forms
 - (3) Practically insoluble
 - (4) Have same solubility as that of crystal forms
- **31.** Nucleosides are the combination of:
 - (1) Nitrogenous base + pentose + phosphate
 - (2) Non- nitrogenous base + pentose
 - (3) Nitrogenous base + phosphate
 - (4) Nitrogenous base + pentose
- **32.** Fasting blood glucose level in prediabetic individuals is mg/100ml:
 - (1) 80 120
 - (2) 105 110
 - (3) 115 125
 - (4) 150 160

33	One ATD - V Call mala	27	The melting point of sixon
55.	One ATP = K Cal/ mole.	57.	The melting point of given substance can be determined by:
	(1) 9		(1) Capillary melting
	(2) 6.6		(2) Hot stage microscopy
	(3) 7.6		(3) DSC
	(4) 8.9		(4) All of the above
34.	Fehling's solution B contains :	38	Carr's index (%) is used to
	(1) KOH + potassium tartrate	33.	determine:
	(2) Na ₂ CO ₃ + Rochelle salt		(1) Powder flow
	(3) KOH + Rochelle salt		(2) Particle size
	(4) NaHCO ₃ + Sodium tartrate		(3) Elasticity
		3	(4) Polymorphism
35.	Pernicious anaemia is caused by:	20	0-1
	(1) Inadequate intake of vitamin	39.	Oral tablets containing substance must be
	B_1		dissolved in water before
	(2) Deficiency of ascorbic acid		administration to void gastric
	(3) Absence of intrinsic factor of		irritation:
	gastric juice		(1) Starch
	(4) Over production of extrinsic		(2) Sodium chloride
	factor		(3) Stearic acid
36.	Wood's apparatus is mainly used		(4) Sodium lauryl sulphate
	in:	40	Consider of tableton and to
	(1) Particle size determination	40.	Capping of tablets can be eliminated by:
	(2) Partition coefficient		(1) Pre-compression
	determination		(2) Reducing the final
	(3) pH determination		compression rate
	(4) solubility determination		(3) Using flat punches
			(4) All of the above
	[(C-7]	CPG-EE-2017/Pharmacy/225.

- **41.** Which of the following alkaloids are founds as salts of meconic acid?
 - (1) Ergot alkaloids
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- **45.** Bavchi consists of dried ripe fruits of:
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 - (2) Ammi visnaga
 - (3) Psoralea corylifolia
 - (4) Picrorhiza kurrroa
- **46.** For isolation of protoplasts from bacterial cell following enzyme is used:
 - (1) Pectinase
 - (2) Chitinase
 - (3) Cellulase
 - (4) Lysozyme
- **47.** Tropane alkaloids are biosynthesized from :
 - (1) Ornithine
 - (2) Tryptophan
 - (3) Tyrosine
 - (4) Phenylalanine
- **48.** Which of the following ring system is present in bioflavanoids?
 - (1) Anthraquinone
 - (2) Steroidal
 - (3) Indole
 - (4) Phenylchromane

- 49. Isothiocyanate glycosides are:
 - (1) also known as glucosinolates
 - (2) S- glycosides
 - (3) found only in dicot plants
 - (4) All of the above
- **50.** Tropane ring is composed of :
 - (1) Imidazole and pyridine ring
 - (2) Pyrrolidine and piperidine ring
 - (3) Pyrolidine and piperazine ring
 - (4) Imidazole and indole ring
- 51. Dopamine is:
 - (1) α and β antagonist
 - (2) α and β agonist
 - (3) α agonist
 - (4) β~agonist
- **52.** Which of the following is most likely to cause tinnitus in high doses?
 - (1) Ibuprofen
 - (2) Mefenamic acid
 - (3) Aspirin
 - (4) Indomethacin

- **53.** Ketorolac trimethamine is useful as:
 - (1) A bronchodilator
 - (2) An hypertensive
 - (3) Non-narcotic non-steroidal analgesic
 - (4) Narcotic analgesic
- **54.** Meperidine is popularly known as:
 - (1) Morphine
 - (2) Pentazocine
 - (3) Pethidine
 - (4) Emetine
- **55.** Bromocriptine is not used in :
 - (1) Shock
 - (2) Suppression of lactation
 - (3) Parkinsonism
 - (4) Prolactinourea
- **56.** Which drug should not be given along with levodopa?
 - (1) Carbidopa
 - (2) MAO inhibitors
 - (3) Atropine
 - (4) Bensarazide

57 .		61.	Eph	nedra	consists	3	of
	agent?				of	Ephe	edra
	(1) Dobutamine		sini	ca.			
	(2) Methoxamine		(1)	dried latex			
	(3) Fenfluramine		(2)	dried aeria	l parts		
	(4) Mephenteramine		(3)	dried roots			
58.	6 - Mercaptopurine potentiates		(4)	dried leave	S		
	action of:		T 1	. 11:			
	(1) Cyclophosphamide	62.	Ind	ian colchicu	ım ıs :		
	(2) Allopurinol		(1)	Colchicum o	utumnal	е	
	(3) Methotrexate		(2)	Colchicum o	ılbum		
	(4) 5-FU		(3)	Colchicum l	uteum		
			(4)	Colchicum s	secundun	ı	
59.	Which cytotoxic drug inhibits cellular division in mitosis (i.e.						
	metaphase arrest):	63.		amarin pres			
	D		wh	en treated w	rith alkal	ishows	sa:
	(1) Vincristine		(1)	Red fluores	scence	*	
	(2) 5-FU		(2)	Deep blue	fluoresce	ence	
	(3) Methotrexate			Green-blue			
	(4) Cyclophosphamide						
	- 1 and 1 an		(4)	Green fluo	rescence		
60.	Drugs that may cause	64	Phy	ysiological "a	ash" repr	esents	
	megaloblastic anaemia include each of the following except:	04.					
			(1)	Water solu	ble mate	rial	
	(1) Methotrexate		(2)	Material	derived	from	the
	(2) Thiabendazole			plant itself			
	(3) Phenytoin		(3)	Sand and	siliceous	earth	
	(4) Cytarabine		(4)	All of the a	bove		
CPO	G-EE-2017/Pharmacy/225 [C-1	0]					_

65.	The amount of alkaloids present	69.		
	in Rauwolfia ranges between:		ryoprotecta issue cultur	nt in cryopreserved re.
	(1) 0.5-1.5%		1) Auxin	
	(2) 0.5-2%		2) Vitamir	n - B ₆
	(3) 0.7-2.4%		3) Liquid	nitrogen
	(4) 0.7-3.5%		4) DMSO	
66.	Ergot is produced during:	70.		nous oil glands are
	(1) Honeydew stage		present in :	
	(2) Sclerotium stage		(1) Petal	* * 9
			(2) Style	
	(3) Ascospore		(3) Hypan	thium
	(4) Sphaecelia stage		(4) Crown	
67.	Ergotoxine is a mixture of: (1) 2 alkaloids (2) 3 alkaloids	71.	the blood bi	
	(3) 4 alkaloids		(2) Vincris	
	(4) 6 alkaloids		(3) Vinbla	stine
	(1) O distalolas		(4) Nitros	oureas
68.	Opium belongs to the chemical	72.	Mode of ac	ction of actinomycin D
	class of:		is to prever	nt:
	(1) Indole alkaloids		(1) RNA e	longation
	(2) Quinoline alkaloids		(2) DNA s	ynthesis
	(3) Isoquinoline alkaloids		(3) DNA e	elongation
	(4) Tropane alkaloids		. ,	of these
		C-11]	CPG-EI	E-2017/Pharmacy/225.

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- **73.** Which of the following is most effective in inhibiting gastric acid secretion?
 - (1) Ranitidine
 - (2) Famotidine
 - (3) Omeprazole
 - (4) Pirenzepine
- **74.** Which of the following purgative is an anionic detergent?
 - (1) Phenolphthalein
 - (2) Liquid paraffin
 - (3) Bisacodyl
 - (4) Dioctyl sulfosuccinate
- **75.** Local anesthetic of choice for anaesthetizing gastric mucosa is:
 - (1) Oxethazaine
 - (2) Lidocaine
 - (3) Dibucaine
 - (4) Butamben
- **76.** Which of the following autacoids is implicated in migraine:
 - (1) Histamine
 - (2) 5-HT
 - (3) Angiotensin
 - (4) Leukotrienes

- 77. Prostaglandin, which has antiaggregatory action on platelets:
 - (1) PGG₂
 - (2) PGI₂
 - (3) PGH₂
 - (4) PGF₂
- **78.** Antihistaminic agent which is ineffective orally:
 - (1) Sodium chromoglycate
 - (2) Salbutamol
 - (3) Theophylline
 - (4) Orciprenaline
- **79.** All of the following are adverse effects of aminoglycoside antibiotics except:
 - (1) Neuromuscular blockade
 - (2) Hematuria
 - (3) Dermatitis
 - (4) Anaemia
- **80.** Antiviral activity of zidovudine is due to:
 - (1) Inhibition of viral RNA polymerase
 - (2) Inhibition of viral protein synthesis
 - (3) Inhibition of viral dependent DNA polymerase
 - (4) All of the above

STATE OF THE PARTY	455000				THE RESIDENCE OF THE PARTY OF T
0.1	1.6	1	95	Mon	-ionic surfactant vesicles
81.		ophasic liquid dosage forms ude:	00.	relates to:	
	(1)	Solutions		(1)	Liposomes
	(2)	Aromatic waters		(2)	Niosomes
	(3)	Tinctures		(3)	Nanoparticles
	(4)	All of the above		(4)	Both (1) and (2)
82.	рН	of human tear is:	86.		Gram's staining technique, the m +ve cells appear:
	(1)	7.2		(1)	Blue
	(2)	7.6		(2)	Green
	(3)	8.0		(3)	Red
	(4)	4.6		(4)	Violet
83.	The	different types of water as	87.	Tyr	ndalisation is :
		cified by I.P. are :		(1)	80°C for 20 min. on three
	(1)	Purified water and W.F.I			successive days
	(2)	W.F.I and distilled water		(2)	100°C for 20 min. on three successive days
	(3)	Purified water, W.F.I. and sterile water for injection		(3)	60°C for 20 min. on three successive days
	(4)	Both (1) and (2)		(4)	None of the above
84.		e different methods used for ogen testing is:	88.	The by	e bacterial spores are destroyed :
	(1)	Rabbit test		(1)	Dessication

[C-13]

(2) LAL test

Both (1) and (2)

None of the above

(3)

(4)

- (2) Phenol
- (3) Boiling
- (4) Autoclaving

	93. The commonly used detector in
89. Killed bacterial vaccine is:	UV spectrophotometer is:
(1) BCG	(1) Photomultiplier tube
(2) Diphtheria	(2) Thermocouple
(3) Pertusis	(3) Bolometer
(4) Tetanus	(4) Littrow prism
90. For dry heat sterilization holding	94. The IR radiation source, Globar is chemically:
time is:	(1) Silicon carbide
(1) 160°C for 1 hour	(2) Silicon disulphide
(2) 140°C for 3 hours	(3) Zirconium oxide
(3) 150°C for 1/2 hour	(4) None of the above
(4) 160°C for 2 hours	95. O-H stretching vibrations in
91. The near ultraviolet region ranges	alcohols and phenols ranges from :
from:	(1) 3550 – 3450 cm ⁻¹
(1) 100 – 300 mµ	(2) 3400 – 3200 cm ⁻¹
(2) 100 – 400 mµ	(3) 3650 - 3590 cm ⁻¹
(3) 200 – 400 mµ	(4) 3570 - 3450 cm ⁻¹
 (4) 92. Electronic transitions in organic molecules involve: (1) Transition of σ electrons (2) Transition of n electrons (3) Transition of π electrons (4) All of the above 	96. The largest peak in the mass spectrum is known as: (1) Metastable peak (2) Rearrangement peak (3) Base peak (4) Molecular ion peak

- **97.** The reference electrode in potentiometric titrations is:
 - (1) Noble metal electrode
 - (2) Dropping mercury electrode
 - (3) Saturated calomel electrode
 - (4) Platinum electrodes
- 98. The pressure used in HPLC is:
 - (1) 1000 3000 psi
 - (2) 1000 5000 psi
 - (3) 1000 6000 psi
 - (4) 2000 6000 psi

- 99. The commonly used binder in TLC is:
 - (1) Calcium carbonate
 - (2) Calcium bisulphate
 - (3) Calcium sulphate
 - (4) Calcium hydroxide
 - 100. The inert gas used in gas chromatography is:
 - (1) Hydrogen
 - (2) $C0_2/0_2$
 - (3) Nitrogen/helium
 - (4) Sulphur

PHARMACY CENTRALIZED ENTRANCE EXAM 2017 KEY

Srl no.	SET-A	SET-B	SET-C	SET-D
1		4	3	4
2	. 2	1	1	1
3	1	3	3	3
4	. 3	4	4	3
5	3	4	3	2
6	4	1	1	1
7	1	4	2	1
8	4	1	2	1
9	4	4	1	3
10	2	3	1	1
11	. 2	4	1	2
12		2	4	3
13		3	1	3
14		3	2	3
15		3	2	1
16		4	3	2
17		4	1	3
18		1	1	2
19	-	2	2	1
20		4	1	2
21		4	3	4
22		1	3	2
23		3	1	3
24				3
25				
26		1	3	
27			3	
28			3	
29		3		
30	-	1		
31				
32				
33				
34		-		
35				-
36			-	
37				
38	3 2	4	1	2

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PHARMACY CENTRALIZED ENTRANCE EXAM 2017 KEY

Srl no.	SET-A	SET-B	SET-C	SET-D
39	1 2	2	2	1
41	4			1
41	1	1 4	2	3
43	3	1	1	1
44	4	2	3	1
45	4	2	3	3
46	1	3	4	3
47	4	1	1	3
48	1	1	4	3
49	4	2	4	3
50	3	1	2	3
51	1	3	2	3
52	4	4	3	3
53	1	1	3	1
54	2	1	3	2
55	2	3	1	2
56	3	3	2	3
57	1	3	3	3
58	1	3	2	3
59	2	3	1	4
60	1	3	2	2
61	3	3	2	4
62	4	1	3	1
63	1	3	3	3
64	1	4	2	4
65	3	3	3	4
66	3	1	2	1
68	3	2	3	1
69	. 3	1	4	4
70	3	1	3	3
71	4	2	4	1
72	2	3	1	4
73	3	3	3	1
74	3	2	4	2
75	3	3	4	2
76	4	2	1	3

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PHARMACY CENTRALIZED ENTRANCE EXAM 2017 KEY

Srl no.	SET-A	SET-B	SET-C	SET-D
77	4	2	4	1
78	1	3	1	1
79	2	4	4	2
80	4	3	3	1
81	3	3	4	4
82	3	3	1	2
83	1	1	3	1
84	2	2	3	3
85	2	2	2	3
86	3	3	1	4
87	3	3	1	1
88	3	3	1	4
89	4	4	3	4
90	2	2	1	2
91	4	2	3	2 2 3
92	1	3	4	3
93		3	1	3
94		3		2
95	2	1	3	3
96		2		2
97	1	3		3 2 3 2 2 2
98		2		
99		1	3	4
100	1	2	3	3

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