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TBC: AKG-AP-PHARMACEUTICS-17

(ii)

(iii)

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as above for that question.

no penalty for that question.

Time	Allowed: 2 Hours] [Maximum Marks: 100
	INCEPTIONS
1.	IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, FOR SHOULD CHECK THAT THIS BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A
	COMPLETE TEST BOOKLET.
2.	You have to enter your Roll Number on the Test Booklet in the Box provided alongside. DO NOT write anything else
3.	on the Test Booklet. This Test Booklet contains 100 items (questions). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.
4.	You have to mark all your responses ONLY on the separate Answer Sheet provided. No erasing/correction fluid is allowed.
5. 6.	All items carry equal marks. Before you proceed to mark in the Answer Sheet the response to various items in the Before you have to fill in some particulars in the Answer Sheet as per instructions. Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions.
7.	After you have completed filling in all your responses on the Answer Sheet and the Catalhand of the Answer Sheet. You are has concluded, you should hand over to the Invigilator only the Answer Sheet. You are
8.	Sheets for rough work are appended in the Test Booklet at the end.
9.	Penalty for wrong answers: THERE WILL BE PENALTY (NEGATIVE MARKING) FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS. (i) There are four alternatives for the answers to every question. For each question for which a wrong answer has been given by the candidate, one fourth (0.25) of the marks assigned to that question will be deducted as penalty.

If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answer happen to be correct and there will be same penalty

If a question is left blank i.e. no answer is given by the candidate, there will be

Use and carrying of Mobile Phone and Electronic Gadget is prohibited in Examination Hall.

- 1. In a prescription 'Direction to the Which of the following is not an 3. Pharmacist' is called as: example of Oleaginous Base? (A) Superscription (A) White petrolatum (B) Inscription (B) Hydrophilic petrolatum (C) Subscription (C) White ointment (D) Signatura (D) Yellow ointment 2. The term Lavigation is used in: (A) Size reduction in small scale In gels, the term 'magma' is referred 4. preparation of ointments to as: (B) Size reduction in small scale (A) Single-phase gel preparation of powders (B) Two-phase gel (C) Size reduction in large scale (C) Jellies preparation of colloids
 - (D) None of the above (D) Gels having low viscosity

water 1		
5.	'Caulking gun' system is used for	8. Alkaloidal incompatibility is an
	filling of:	example of:
	(A) Ointment jars	
	(B) Ointment bottles	(A) Physical
	(C) Ointment tubes	(B) Chemical
	(D) Both (A) and (B)	(C) Therapeutic
6.	Pyroxilin is present only in:	(D) None of the above
	(A) Liniments	
8 9	(B) Collodions	9. Number of meshes in a length of
	(C) Extracts	25.4 mm (i.e. 1 inch), in each
	(D) Lotions	direction is known as:
7.	Bentonite is the silicate of:	(A) Sieve number
	(A) Mg	(B) Sieve diameter
	(B) Al	e e e
	(C) Ca	(C) Nominal size aperture
	(D) C	(D) None of the above
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- 10. The temperature which is given by a heat balance between the initial unsaturated vapor-gas mixture and the final saturated mixture at thermal equilibrium is known as:
 - (A) Dry bulb temperature
 - (B) Wet bulb temperature
 - (C) Adiabatic saturation temperature
 - (D) Enthalpy
- 11. When the value of the Reynolds number is less than 2000, the type of flow is:
 - (A) Streamline
 - (B) Transition
 - (C) Turbulent
 - (D) None of the above

- 12. Pearlite used as filter aid, which is:
 - (A) Silica and aluminium silicate
 - (B) Charcoal
 - (C) Kaolin
 - (D) Gelatin
- 13. The ε (emissivity) of a black body

is:

- (A) 1.0
- (B) 1.5
- (C) 2.0
- (D) 0.5

- 14. Grade 5 of sintered glass filters are used for :
 - (A) Non-sterile filtration
 - (B) Sterile filtration
 - (C) Both (A) and (B)
 - (D) None of the above
- 15. Ball mill works on the principle of:
 - (A) Impact
 - (B) Attrition
 - (C) Compression
 - (D) Impact and Attrition both
- 16. Movement of particles during size separation can be enhanced by :
 - (A) Mixing
 - (B) Attrition
 - (C) Gravitation
 - (D) Agitation

- 17. According to Rittinger theory:
 - (A) Energy used in rack propagation is proportional to the new crack length produced
 - (B) Energy used in deforming a set
 of particles of equivalent shape
 is proportional to the ratio of
 change of size
 - (C) Energy required in a size reduction process is proportional to the new surface area produced
 - (D) All of the above

P.T.O.

18.	Latent heat	of vaporizat	tion is the
	specific enth	alpy change	associated
	with:		25.2

- (A) Drying
- (B) Filtration
- (C) Evaporation
- (D) None of the above
- 19. Which medium is more effective for thermal radiation?
 - (A) Air
 - (B) Vacuum
 - (C) Water
 - (D) Insulated with cotton
- (B) Vacuum

- 20. Condensation occurs when a saturated vapor comes in contact with a surface whose temperature is:
 - (A) Less than the saturation temperature
 - (B) Greater than the saturation temperature
 - (C) Neither greater than nor less than the saturation temperature
 - (D) None of the above
- 21. Most abundantly present immunoglobulin in the body is:
 - (A) IgG
 - (B) IgM
 - (C) IgA
 - (D) IgD

- 22. Staphylococcus aureus is an example of:
 - (A) Gram positive bacteria
 - (B) Gram negative bacteria
 - (C) Rickettsias
 - (D) Mycoplasm
- 23. Gram staining is also known as:
 - (A) Acid fast staining
 - (B) Negative staining
 - (C) Differential staining
 - (D) Simple staining
- 24. Which medium is best suited for testing of Bacillus subtilis?
 - (A) Soyabean casein digest medium
 - (B) Empirical medium
 - (C) Fluid thioglycolate medium
 - (D) Alternate fluid thioglycolate medium

- 25. Turbid or cloudy solutions are assayed by:
 - (A) Turbidimetric method
 - (B) Cylinder plate method
 - (C) Cup and plate method
 - (D) None of the above
- 26. Nutrient medium consisting of water, beef extract, peptone protein supplement is known as:
 - (A) Simple medium
 - (B) Nutrient broth
 - (C) Complex medium
 - (D) Empirical medium

P.T.O.

- 27. To confirm the efficiency of radiation sterilization, the biological indicator used is: (A) Bacillus subtilis (B) Bacillus pumilis (C) Clostridium sporgenes (D) Candida albicans 28. Rideal-walker coefficient for grade 2 disinfectant is: (A) 15 (B) 10 (C) 12 (D) 5 TBC: AKG-AP-PHARM.-17
- 29. Schick test works on the principle of:
 - (A) Radioimmuno assay
 - (B) Complexation reaction
 - (C) Toxin neutralization
 - (D) Agglutination
 - 30. In production of vitamin B_{12} by fermentation, the strain used is :
 - (A) Clostridium butylicum
 - (B) Ashby gossypii
 - (C) Presdomonas denitrificans
 - (D) Salmonella typhi

31. What is prophylactic disinfection?

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- (A) Pasteurization of milk
- (B) Disinfection of infected material by removal of patient to hospital
- (C) Carried out during course of patient's illness
- (D) None of the above
- 32. Killed, polio vaccine is:
 - (A) Sabin vaccine
 - (B) Salk vaccine
 - (C) BCG vaccine
 - (D) TAB vaccine

- 33. Schedule V stands for:
 - (A) List of drugs marketed under generic names only
 - (B) Particulars to be shown in manufacturing, raw materials and analytical records of drugs
 - (C) Standards for patent or proprietary medicines
 - (D) Standards for cosmetics
- 34. Schedule P1 stands for:
 - (A) List of dyes, pigments, colors
 and pigments permitted in
 cosmetics and soaps
 - (B) Life period of drugs
 - (C) Standard for medical devices
 - (D) Pack size of drugs

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35.	Licenses which are made in Form	37.	Wholesale of drugs specified in
34. 180	w		
e	24-A and issued in Form 25-A	e v	schedule X is issued under form:
	are:		
		OH!	(A) 21A
er . Pt	(A) Repackaging licenses		
			(B) 20G
	(B) New drug license		
			(C) 25B
	(C) Loan license		(C) 25B
	(D) None of the above	л.	(D) 24F
26	Sera, solutions, toxins are regulated		
30.	Sera, solutions, toxins are regulated	38.	Poison Act was passed in:
1954 195	under:		
			(A) 1921
Đ.	(A) Schedule C		
2	(B) Schedule Y		(B) 1952
	(B) Schedule 1		
in the	(C) Schedule E1		(C) 1982
	(D) Schedule FF		(D) 1919
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- 39. According to Medical Termination of

 Pregnancy Act pregnancy cannot be

 terminated by a registered medical

 practitioner:
 - (A) When length of pregnancy does not exceed 12 weeks
 - (B) When length of pregnancy exceeds 12 months but does not exceed 16 weeks
 - (C) When length of pregnancy
 exceed 12 weeks but does not
 exceed 20 weeks
 - (D) When continuation of pregnancy involve serious risk to life of pregnant woman

- 40. Which of the following diseases comes under Schedule J?
 - (A) Glaucoma
 - (B) Malaria
 - (C) Diabetes
 - (D) None of the above
- 41. Standard for disinfectant fluid comes under:
 - (A) Schedule O
 - (B) Schedule R
 - (C) Schedule N
 - (D) Schedule V

42. Hargen's gas bearing electro-	44. Which one of the following is not a
dynamometer is used to monitor:	hard wax ?
(A) Thyrotrophic behavior	(A) Carnauba wax
(A) Thyrotropine behavior	(11) Carnadba wax
(B) Viscoelastic behavior	(B) Candeilia wax
(C) Viscosity	(C) Ozokerite wax
(D) Both (A) and (B)	(D) Hard paraffin
(D) Both (A) and (b)	(D) Hard paranim
43. Cold compression method is used for	45. The lipstick defect in which it
preparation of:	appears dull is called as:
(A) Ointments	(A) Streaking
(A) Ointments	(A) Streaking
(A) Ointments (B) Suppositories	(A) Streaking (B) Sweating
(B) Suppositories	(B) Sweating
(B) Suppositories (C) Pessaries	(B) Sweating
(B) Suppositories(C) Pessaries(D) Enema	(B) Sweating (C) Bleeding (D) Blooming
(B) Suppositories(C) Pessaries(D) Enema	(B) Sweating (C) Bleeding

46.	What is the use of selenium sulfide	48.	Color of calamine is due to:
	in shampoos ?		(A) Ferrous sulfate
			(B) Ferrous oxide
*	(A) Surfactant		(C) Ferric oxide
	(B) Anti-dandruff agent	M	(D) Calcium oxide
3	(C) Conditioning agent	49.	Honeywill atlas is the common
2			name of:
	(D) Foam booster		(A) Spans
47.	Draize test is used for which of the		(B) Tweens
6 5 E			(C) Ploxaloids
	following for a shampoo?		(D) Macrogels
	(A) Skin irritation	50.	Wursters process means:
	(B) Skin sensitivity		(A) Pan coating
	(C) Foamibility		(B) Coacervation
	(C) I ballibility		(C) Air suspension
ter 2	(D) Preservative activity		(D) Solvent evaporation
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51.	What is the value of Hauser's ratio	54.	Wool fat is:
	for good flow ?	96 96 96	(A) Hydrous lanolin
	(A) 1.05-1.18	s all	(B) Anhydrous lanolin
	(B) 1.14-1.20	8	(C) Bees wax
	(C) 1.22-1.26		(D) Hard paraffin
	(D) 1.26-1.30	55.	Draves test is associated with
52.	Triclosan is used as:	30.	measuring the efficiency of:
	(A) Anti-bacterial		(A) Detergents
	(B) Binding agent	=	(B) Wetting agents
	(C) Preservative		(C) Suspending agents
	(D) Anticaries		(D) Adsorbent
53.	An apparatus used to measure		
	thixotropy is:	56.	Mailard reaction is shown by:
	(A) Manometer		(A) Spray dried lactose
	(B) Rotameter	58	(B) Anhydrous lactose
v	(C) Sorptometer		(C) Hydrous lactose
	(D) Penemeter		(D) Starch
тво	C: AKG-AP-PHARM17	4	

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57.	In tablet defects, the material
	adhering to die wall is referred
ži.	as:
(E	(A) Capping
25	(B) Picking
	(C) Sticking
	(D) Mottling
58.	The smallest capsule size for human
	consumption is:
žii (R	(A) 0
	(B) 1
	(C) 3
	(D) 5
59.	A water insoluble coating agent
	used in microencapsulation is:
	(A) Polyamides
	(B) Polyvinyl alcohol
US	(C) Polyacrylic acid
	(D) PVP

60. Water attack test is performed for: (A) General purpose soda lime (B) Borosilicate (C) Treated soda lime (D) Soda lime 61. A propellant used in aerosols is selected on the basis of: (A) Density (B) Vapor pressure (C) Boiling point (D) All of the above A parenteral preparation should 62. have a pH of: (A) 6.9 (B) 7.0

(C) 7.4

(D) 7.8

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63.	Isoelectric point of type B gelatin	65.	AUC reflect the:
8	is:	# # # # # # # # # # # # # # # # # # #	(A) Amount of active drug which reaches the systematic
	(A) 3.7	s.	circulation
y.	(B) 4.7	3K	(B) Amount of active drug which is
2 40	(C) 5.7	fl a	absorbed
		T	(C) Amount of active drug which is protein bounded
y 11 - 20	(D) 5.0		(D) Amount of active drug which is
64.	Sublingual administration of drugs		metabolized
2	involve:	66.	Insecticide Act was passed in the
	(A) Swallowing the tablet		year:
	(B) Chewed the tablet	21	(A) 1976
		E 90	(B) 1950
385 F	(C) Beneath the tongue	8 8	(C) 1949
	(D) All of the above	3	(D) 1968
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- 67. Which equation is used to predict the stability of a drug product at room temperature from experiments at accelerated temperatures?
 - (A) Stokes equation
 - (B) Arrhenius equation
 - (C) Michaelis-Menten equation
 - (D) Hixson-Crowell equation
- 68. Cytochromes P450 (CYPs) are:
 - (A) Proteins of the super family containing heme as a cofactor
 - (B) In this P is a pigment which is absorbed at 450 nm
 - (C) Both (A) and (B)
 - (D) None of the above

- 69. Orosomucoid is also known as:
 - (A) Hemoglobin
 - (B) Human serum albumin
 - (C) α₁-Acid glycoprotein
 - (D) None of the above
- 70. Which equation describes the rate of drug dissolution from a tablet?
 - (A) Fick's law
 - (B) Henderson-Hasselbalch equation
 - (C) Michaelis-Menten equation
 - (D) Noyes-Whitney equation
- 71. Protein act as buffer due to:
 - (A) Amphiphatic nature
 - (B) Acidic nature
 - (C) Basic nature
 - (D) Colloid nature

- 72. Passive diffusion is described by:
 - (A) Ficks first law
 - (B) Ficks second law
 - (C) Ficks third law
 - (D) Ficks fourth law
- 73. Xenobiotics are considered:
 - (A) Endogenous
 - (B) Exogenous
 - (C) Inorganic poisons
 - (D) Toxins
- 74. Cellulose acetate phthalate is an agent used in sugar coating of tablet as:
 - (A) Seal coating
 - (B) Sub coating
 - (C) Syruping
 - (D) Polishing

- 75. Rhusma was the firstly reported:
 - (A) Nail preparation
 - (B) Shampoo
 - (C) Hair gel
 - (D) Depilatory
- 76. Widal test is used for the detection of:
 - (A) Rickettsial diseases
 - (B) Typhoid fever
 - (C) Syphilis
 - (D) Malaria
- 77. What is the duration of sweat collection in gravimetric method of evaluation of anti-perspirants?
 - (A) 20 minutes
 - (B) 30 minutes
 - (C) 40 minutes
 - (D) 50 minutes

- 78. The correct equivalent for -10°C is:
 - (A) -10°F
 - (B) +22°F
 - (C) -18°F
 - (D) +14°F
- 79. The loading dose of a drug is based upon the:
 - (A) Time taken for complete elimination
 - (B) Percentage of drug excreted unchanged in urine
 - (C) Percentage of drug bound to plasma protein
 - (D) Apparent volume of distribution
 and the desired drug
 concentration in plasma

- 80. HLB system is used to classify:
 - (A) Surfactants
 - (B) Preservatives
 - (C) Antioxidants
 - (D) Sequestering agents
- 81. The title of Netaji Subhash Chandra

 Bose unfinished book is:
 - (A) Indian Abroad
 - (B) My Freedom
 - (C) An Indian Pilgrim
 - (D) A Truth
- 82. In which year the Wildlife

 Protection Act was introduced in

 India?
 - (A) 1972
 - (B) 1980
 - (C) 1960
 - (D) 1965

- 83. Which one of the following is the Chairman of the National Development Council?
 - (A) President of India
 - (B) Finance Minister of India
 - (C) Prime Minister of India
 - (D) Vice-President of India
- 84. Which Planet is referred to as a "Dwarf Planet"?
 - (A) Mars
 - (B) Mercury
 - (C) Pluto
 - (D) Saturn

- 85. Which mountain form boundary between Spain and France?
 - (A) Pyrenees
 - (B) Andes
 - (C) Rockies
 - (D) Jura
- 86. Which of the following has been described as the "Soul of the Indian Constitution"?
 - (A) The Parliament
 - (B) Directive Principles of State
 Policy
 - (C) Fundamental Rights
 - (D) Right to Constitutional
 Remedies

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87.	Council of Ministers is collectively	89.	Which of the following articles
	responsible for:		deals with the Scheduled and
			Tribal Areas ?
	(A) President	7	
			(A) Article 311
	(B) Prime Minister	5	(B) Article 203
	5 m		(b) Article 200
3 8	(C) Parliament	·•()	(C) Article 220
	, s		# # # # # # # # # # # # # # # # # # #
	(D) Lok Sabha	8 8	(D) Article 244
88.	Who was the permanent President	90.	The name of the great maestro of
			T. 1: " "T. 1 D: '11 1
×	of the Constituent Assembly ?		Indian music, "Ustad Bismillah
247	* g = g = g = g = g = g = g = g = g = g	·	Khan" is related to:
	(A) Sachidananda Sinha	8.	e see e
		68	(A) Flute
	(B) Dr. B.R. Ambedkar	55	Now, of the second seco
	(b) Dr. D.R. Ambeukar	10	(B) Sarod
	6 S	2	
	(C) Jawahar Lal Nehru	av S	(C) Shehnai
	(D) Dr. Rajendra Prasad	P.	(D) Tabla
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"Uhl" is a tributary of: 94. Shilaroo Sports Complex is in district: (A) Satluj (A) Solan (B) Ravi (B) Sirmour (C) Beas (C) Kinnaur (D) Yamuna (D) Shimla 92. Who said about Spiti that, "This 95. "Giri" Ganga stream rises at : place is no place for men"? (A) A.O. Hume (A) Kuppar Peak (B) Lord Reading (B) Churdhar Peak (C) Narkanda Peak (C) Rudyard Kipling (D) James Peter (D) Kufri Peak 96. "Chandra" and "Bhaga" rivers meet Pajhota area in Sirmour district is now the part of tehsil: at: (A) Pacchad (A) Koksar (B) Udaipur (B) Rajgarh (C) Renuka (C) Tandi (D) Mindhal (D) Shilai TBC: AKG-AP-PHARM.-17

W)	e a	ī	
97.	Kinnaur was merged in Himachal	99.	In Himachal Pradesh Dum (Dumh)
	Pradesh as the		was parallel to:
	district.	a 3	(A) Begaar Custom
	(A) 6th	\$1 \$2 \$20	(B) Non-cooperation
	(B) 7th	se a6	(C) Land Tax
	(C) 8th	- L	(D) Reet Custom
	(D) 3rd	100.	Pong Dam on the river Beas in
98.	Gondha Fort (Castle) is located in		district Kangra is also known as:
¥ 190	district:		(A) Maharana Pratap Sagar Dam
20 ²⁸⁴ 1 50	(A) Kinnaur	2 * 1)	(B) Maharaja Ranjit Singh Dam
	(B) Lahaul-Spiti		(C) Maharaja Sansar Chand Dam
	(C) Sirmour	18	(D) Maharaja Susharma Chand
8	(D) Shimla		Dam
TBO		3	P.T.O.