Question Papers

	Examcode: RPSC_CH_PHARM	
1.	Hypsochromic shift is also called as	
	1) yellow shift	2) Blue shift
	3) Red shift	4) Violet shift
2.	The unit of Wavelength is .	
	1) cm ⁻¹	2) m
	3) L ⁻¹	4) km ⁻¹
	,	4) KIII
3.	Bathochromic shift is also called as	
	1) Yellow shift	2) Blue shift
	3) Red Shift	4) Green shift
4.	1º A is equal to	
	1) 10 ⁻⁶ m	2) 10 ⁻⁷ m
	3) 10 ⁻⁸ m	4) 10 ⁻¹⁰ m
	,	•
5.	Which one is not the detector of Gas chromatogra	
	1) T.C.D.	2) C.C.D.
	3) F.I.D.	4) A.I.D.
5.	Which one is most widely used electrode?	
	1) Hydrogen electrode	2) Calomel electrode
	3) Antimony electrode	4) Glass electrode
7.	Which one is not used in Gas chromatography?	
•	1) Packed column	2) Open tubular column
	3) S.C.O.T. column	4) Guard column
	,	,
3.	If analytical work has to be carried out in U.V. re	gion, cuvette must be madeup of
	1) Gelatin	2) Glass
	3) Plastic	4) Quartz
	,	1) Quii 12
).	Pre-mix burner is also known as	
	1) Total consumption burner	2) Mecker burner
	3) Laminar flow burner	4) Bunsen burner
10.	Which one is not detected by flame photometer?	
	1) Ca	2) Na
	3) K	4) As
11.	Chopper is used in which instrument?	
	1) H.P.T.L.C.	2) H.P.L.C.
	3) Single beam photometer	4) A.A.S.
	, -	,
12.	Which one is not used as a carrier gas in Gas chro	omatograpny?
	1) Carbon dioxide	2) Hydrogen
	3) Helium	4) Nitrogen
	,	,
13.	The source of radiation used in Infra red spectros	
	Nernst glower Deuterium discharge lamp	2) Sodium lamp 4) Tungsten lamp
	DEDOUGHUM GISCHAISE IAMD	4) LUNSSICH IAMD

Ch	Choose the correct pair:				
	Instru	uments			Key Parts
a	H.P.I	C.		1	Monochromator
b	A.A.S			2	Dropping mercury electrode
c	Polar	ography		3	Isocratic pump
d	Infra	red		4	Hollow cathode
					lamp
	a	b	c		d
A.	3	4	2		1
В.	1	2	3		4
C.	2	3	4		1
Т	0	1	4		0

15.	Choose	the	$\operatorname{correct}$	pair:
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14.

Analytical property a Absorption of radiation b Scattering of radiation c Mass to charge ratio d Thermal property Instrument D.S.C. A.A.S. Turbidimeter Mass spectrome property	
radiation b Scattering of 2 A.A.S. radiation c Mass to 3 Turbidimeter charge ratio d Thermal 4 Mass spectrome	
radiation c Mass to 3 Turbidimeter charge ratio d Thermal 4 Mass spectrome	
charge ratio d Thermal 4 Mass spectrome	
a mormal mass spectrome	
	ter
a b c d	
A. 1 2 3 4	
B. 2 3 4 1	
C. 4 1 2 3	
D. 3 4 1 2	

16. Chemically Mayer's reagent is	
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- 1) Potassium mercuric iodide
- 3) Iodine solution

- 2) Potassium bismuth iodide
- 4) Picric acid

- 17. What is Wagner's reagent?
 - 1) Picric acid

2) Iodine in potassium iodide

3) Ammonia solution

- 4) P dimethylaminobenzaldehyde
- 18. In N.M.R., which solvent is used as a reference solvent?
 - 1) T.M.S.

2) Water

3) Ethanol

- 4) C.M.C.
- 19. Which reagent is used to detect phenolic compounds?
 - 1) Vanillin sulphuric acid

2) Dragondroff

3) Ninhydrin

- 4) Methanolic Ferric chloride.
- 20. Wij's solution is used in analysis of which parameter?
 - 1) Acid value

2) Saponification value

3) Peroxide value

4) Iodine Value

Sel	ect the	ect the correct pair:			
a	Visible radiat	_	1	200 to 400 n.m.	
b	Near	U.V	2	2.5 to 50 μm	
c	Middl	e I.R.	3	0.75 to 2.2 μm	
d	Near 1	I.R.	4	400 to 750 n.m.	
	a	b	\mathbf{c}	d	
A.	4	1	2	3	
В.	2	3	4	1	
C.	3	4	2	1	
n	1	9	9	1	

22. Select the correct pair

21.

Sei	Select the correct pair:					
	Group)-I		Group-II		
a	U.V.		1	Tungsten filament		
				lamp		
b	Visible		2	Hydrogen discharge		
				lamp		
c	I.R.		3	Hollow cathode		
				lamp		
d	A.A.S.		4	Nernst Glower		
	0	b	c	d		
	a	D	C	u		
A.	1	2	3	4		
B.	3	4	2	1		
C.	2	1	4	3		
D.	4	3	2	1		

23. Select the correct pair:

Ser	Select the correct p			r:		
	Group-I			Group-II		
a	Ninhydrin		1	Alkaloids		
b	Drag	ondroff	2	Amino acids		
c	Ferri	\mathbf{c}	3	Phenolic		
	chlor	ide		compounds		
	a	b	c			
A.	3	2	1			
В.	2	1	3			
C.	2	3	1			
D.	1	2	3			

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24.	I IIC CHCOL V	oi nebu	แรลเเบน เร ส	ssociated with	

1) Nephalometry

2) A.A.S.

3) Fluorimetry

4) Titrimetry

25. Which one is not the analytical parameter for "Avaleha" preparation?

1) L.O.D.

2) Ash value

3) Alcohol content

4) Sugar content

26. Which one is not the analytical parameter for "Churna" preparation?

1) Total solid content

2) Water soluble extractive

3) Alcohol soluble extractive

4) Mesh analysis

27. Which schedule contains different types of forms in Drug and cosmetic act, 1945?		
	1) Schedule B 3) Schedule D	2) Schedule C 4) Schedule A
28.	Which schedule is related to GMP for ASU drugs?	?
	1) Schedule A 3) Schedule B	2) Schedule T4) Schedule M
29.	What is the maximum percentage limit of alcohol	(Ethyl alcohol v/v) in Mritasanjivani sura?
	1) 12% 3) 10%	2) 16% 4) 18%
30.	What is section 33EE? 1) Spurious drug 3) Adulterated drug	2) Misbranded drug4) Putrid drug
31.	Which form is given by licensing authority for the	certificate of G.M.P. of ASU drugs?
	1) Form 26E1 3) Form 26C	2) Form 26B 4) Form 24D
32.	What should be called the drug if it is an imitation	of another drug according to D&C Act?
	 Misbranded drug Imitated drug 	2) Adulterated drug4) Spurious drug
33.	Misbranded drugs belong to which section of D&C 1) 33B 3) 33A	C Act? 2) 33E 4) 33C
34.	What is the shelf life of Churna an Ayurvedic form	nulation?
	1) 2 years 3) 5Years	2) 3Years4) 1Years
35.	Which Ayurvedic dosage form has no expiry date: 1) Sweta parpati 3) Parpati	2) Varti 4) Vati
36.	Which Ayurvedic dosage form became more effica	acious with the passage of time?
	1) Asava 3) Taila	2) Guggulu4) Lepa guti
37.	Which Schedule gives information about fees for t state drugs laboratories?	est or analysis by the central drugs laboratories or
	1) Schedule F 3) Schedule K	2) Schedule Y 4) Schedule B

38.	1) 1200 sq. ft. 3) 1800 sq. ft.	2) 1600 sq. ft. 4) 1300 Sq. ft.	
39.	What is minimum space requirement for Manufact 1) 150 sq. ft. 3) 200 sq. ft.	cturing Asava / Arishta? 2) 250 sq. ft. 4) 100 sq. ft.	
40.	What is in the "First Schedule" of Drugs & Cosmo 1) List of books 3) List of Equipments	etic Act,1940? 2) List of Glasswares 4) List of Forms	
41.	What is the duration of renewal license periods fo 1) 5 Years 3) 4 Years	r selling drugs? 2) 3 Years 4) 6 Years	
42.	When ayurvedic drug manufacturer have to submicensing authority?	nit the register of "Record of market complaints" to	
	1) Once a year 3) Every 3 year	2) Once in a six month4) Never	
43.	Pilocarpine is used for: 1) Glaucoma 3) Urinary retention	2) Paralytic ileus4) All of these	
44. Atropine does not antagonise the following feature of anticholinesterase poisoning:			
	 Hypotension Muscle paralysis 	2) Central excitation4) Bronchoconstriction	
45.	The following is a selective α ₂ adrenoceptor antag 1) Prazosin 3) Phentolamine	onist: 2) Yohimbine 4) Clonidine	
46.	Propranolol can be used to allay anxiety associated	d with:	
	 Chronic neurotic disorder Short-term stressful situations 	2) Schizophrenia4) Endogenous depression	
47.	Select the β -adrenergic blocker that has additional	l α blocking, vasodilator and antioxidant properties:	
	1) Carvedilol 3) Acebutolol	2) Celiprolol4) Metoprolol	
48.	Sulphur is used in the treatment of 1) Diabetes 3) Tuberculosis	2) Inflammation4) Scabies	
49.	Vaniline sulphuric acid is used to detect 1) Alkaloids 3) Volatile oil components	2) Tannins 4) Saponins	
50.	Which one is not a destructive technique in T.L.C. 1) Anisaldehyde sulphuric acid spray 3) Iodine chamber	2) Ferric chloride spray 4) Ninhydrin spray	

51.	Which one is not detected by dragondroff reagent?	
	1) Vasicine	2) Reserpine
	3) Piperine	4) Catechin
52.	H1 antihistaminics are beneficial in:	
	1) All types of allergic disorders	2) Certain type I allergic reactions only
	3) Certain type IV allergic reactions only	4) Bronchial asthma
53.	Bromhexine acts by:	
	1) Inhibiting cough centre	2) Irritating gastric mucosa and reflexly increasing bronchial secretion
	3) Depolymerizing mucopolysaccharides present in sputum.	4) Desensitizing stretch receptors in the lungs
54.	Antitussives act by:	
	 Liquifying bronchial secretions Reducing cough inducing impulses from the lungs 	2) Raising the threshold of cough centre4) Raising the threshold of cough centre and Reducing cough inducing impulses from the lungs
55	Basal thermometer is used for	
33.	1) Temperature determination	2) Estimation of time of ovulation
	3) Consistency of pharma products	4) Stability
56.	Octreotide is a long acting synthetic analogue of:	
	1) Prolactin	2) Growth hormone
	3) Somatostatin	4) Gonadotropin releasing hormone
57.	The drug is placed under the tongue and allow to d	lissolve, this process is called as,
	1) Parentral administration	2) Oral administration
	3) Sublingual administration	4) Intra dermal administration
58.	Out of the following drug which drug is chemically	glycoside?
	1) Diltazim	2) Nifedipine
	3) Digoxin	4) Aspirin
59.	The primary indication of tamoxiphen citrate is:	
	1) Female infertility	2) Endometrial carcinoma
	3) Breast Carcinoma	4) Endometriosis
60.	Streptomycin is effective against	
	1) Gram +ve bacteria only	2) Gram -ve bacteria only
	3) Gram +ve bacteria and Gram -ve bacteria	4) Effective against virus
61.	Azithromycin is mainly eliminated by route	
	1) Renal	2) Hepatic
	3) Perspiration	4) Semen

62.	What is the nature of Heparin?		
	1) Acidic	2) Basic	
	3) Amphoteric	4) None of these	
63.	HLB system was developed by		
	1) Griffin	2) Stock's	
	3) Dalla Valle	4) None of these	
64.	To identify the emulsion type, which of the following tests are conducted?		
	1) Dilution test	2) Dye test	
	3) Conductivity test	4) All of these	
65.	The stability of suspensions can be evaluated by		
	1) Sedimentation volume	2) Degree of flocculation	
	3) Re-dispersibility	4) All of these	
66. Which of the following is not used as a emulsifying agent?			
	1) Surfactant	2) Hydrophilic colloids	
	3) Electrolytes	4) Finely divided solids	
67			
67. Which of the following agents are used as flavoring agents			
	1) Menthol	2) Cinnamon	
	3) Both Menthol and Cinnamon	4) None of these	
68	In the formulation, to facilitate the wetting of insol	uble solids, which of the following agents used	
00.	in the formulation, to facilitate the wetting of moof	uble solids, which of the following agents used	
	1) Suspending agents	2) Flavoring agents	
	3) Wetting agents	4) None of these	
69.	To increase the viscosity of liquid, which of the following agents are used		
	1) PVP	2) Methyl Cellulose	
	3) Sodium Carboxy Methyl Cellulose	4) All of these	
	,		
70.	drophobic materials in liquid		
	1) By decreasing the solid-liquid interfacial tension	2) By increasing the solid-liquid interfacial tension	
	3) By decreasing the solid-liquid interfacial tension and By increasing the solid-liquid interfacial tension	4) None of these	
71.	Which of the following is a synthetic sweetener		
-	1) Glucose	2) Sucrose	
	3) Sorbitol	4) Aspartame	
72.	Generally pastes contain		
•	1) High percentage of insoluble solids	2) Low percentage of insoluble solids	
	3) Both High and Low percentage of insoluble solids	· · · · · · · · · · · · · · · · · · ·	
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	1) Blistering3) Orange peel	2) Flaking4) Mottling	
74.	Which of the following method is used to determine flow property of powders		
	 Angle of repose Deflocculation 	2) Sedimentation4) None of these	
75.	Pyrogens are generally 1) Induce joint pain 3) Increase body temperature	2) Decrease body temperature4) None of these	
76.	Which of the following method is not used in evalu 1) Angle of repose 3) Dissolution	tion of tablet 2) Disintegration 4) Weight variation	
77.	In the preparation of vanishing creams, which types of bases are used generally?		
	 Absorption bases Hydrocarbon bases 	2) Water removable bases4) None of these	
78.	Which of the following substances liberate water of 1) Hygroscopic 3) Deliquescent	f crystallization 2) Efflorescent 4) Eutectic mixtures	
79.	Which of the following substances is not used as binding agent		
	1) CMC 3) Tale	2) PVP 4) Gums	
80.	Phase inversion in emulsion involves 1) Change of emulsion type	2) Complete separation of two phases	
	3) Formation of aggregates	4) Upward movements of floccules	
81.	Which of the following is not a semisolid dosage form		
	 Paste Ointments 	2) Creams4) Suspension	
82.	Which of the following substances is used to prevent oxidation reaction		
	 Preservatives Surfactants 	2) Antioxidants4) Deflocculating agents	
83.	The temperature condition for storage of drug products under cold temperature is given as		
	1) Temperature between 8°C and 25°C	2) Temperature below 2°C	
	3) Temperature at 0°C	4) Temperature between 2°C and 8°C	

73. Which of the following is not a film defect in tablet coating

84.	"Qualitative results" refer to:			
	1) Results that can be observed during an experiment.	2) Results those are difficult to observe during an experiment.		
	3) Results that require numerical data.	4) None of these		
85.	Which type of orbital looks like a figure-8 when drawn?			
	1) s-orbital	2) p-orbital		
	3) d-orbital	4) f-orbital		
86.	Which of the following typically has a low melting point?			
	1) metals	2) nonmetals		
	3) metalloids	4) transition metals		
87.	Cations have:			
	1) Positive charge	2) Negative charge		
	3) No charge	4) It is impossible to predict the charge on a cation		
88.	The chemical name for Fe ₂ O ₃ is:			
	1) iron oxide	2) iron (II) oxide		
	3) iron (III) oxide	4) iron (VI) oxide		
89.	The symbol (s) after a chemical compound lets you	know that it is:		
	1) soluble in water	2) insoluble in water		
	3) a solid	4) More than one of these		
90.	Which of the following is not an acid?			
	1) HNO ₃	2) CH ₃ COOH		
	3) H_2SO_4	4) NaOH		
91.	Which of the following is NOT a laboratory safety rule?			
	1) You should never mix acids with bases	2) You should tie back your long hair		
	3) You should never add water to acid	4) All of the these are valid safety rules		
92.	An example of a chemical property is:			
	1) density	2) mass		
	3) acidity	4) solubility		
93.	Bohr's model of the atom was able to accurately explain:			
	1) Why spectral lines appear when atoms are heated.	2) The energies of the spectral lines for each element.		
	3) Why electrons travel in circular orbits around the nucleus.	4) None of these		
94.	Role of Buffer solution in case of pH.			
	1) Change pH	2) Increase pH		
	3) Maintain pH	4) Decrease pH		

95. What is meant by Anhydrous salt? 2) Without water 1) With water 3) Small amount of water 4) with ammonia 96. What indicator is suitable for Sodium Carbonate titration against strong acids and why? 1) Methyl red 2) Methyl orange 3) Phenolphthalein 4) Gelatin solution 97. Which one is not the type of Refractometer? 1) Pulfrich type 2) Dipping type 3) Abbes's type 4) Brookfield type 98. Which one is not the type of heavy metal? 1) As (Arsenic) 2) Hg (Mercury) 3) Fe (Iron) 4) Pb (Lead) 99. What do you mean by Mohr's Salt? 1) (NH₄)₂Fe(SO₄)₂·6H₂O 2) CaCO₃ 3) FeSO₃ (NH₄)₂SO₄. H₂O 4) FeSO₄ (NH₄)₂SO₄.10H₂O 100. The equivalent weight of $KMnO_4$ 1) 35.1 2) 31.6 3) 39.5 4) 31.00