# Question Papers ExamCode: RPSC CH DHADM

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 <sup>-1</sup>	2) <mark>m</mark>			
	$^{\circ}$ L <sup>-1</sup>	4) km <sup>-1</sup>			
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 <sup>-6</sup> m	2) 10 <sup>-7</sup> m			
	3) 10 <sup>-8</sup> m	4) 10 <sup>-10</sup> m			
_		· — —			
5.	Which one is not the detector of Gas chromatogra 1) T.C.D.	apny? 2) C.C.D.			
	3) F.I.D.	4) (A.I.D.)			
	,	7) 11.1.0.			
6.	Which one is most widely used electrode?	2) (0.1			
	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			
8.	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			
9.	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 chromatography?				
		O) II 1			
	1) Carbon dioxide	2) Hydrogen			
	3) Helium	4) Nitrogen			
13.	The source of radiation used in Infra red spectros	- · ·			
	1) Nernst glower	2) Sodium lamp			
	3) Deuterium discharge lamp	4) Tungsten lamp			

Ch	Choose the correct pair:			
	Instruments			Key Parts
a	H.P.L.C.		1	Monochromator
b	A.A.S.		2	Dropping mercury electrode
c	Polarography	y	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
D	2 1	4		3

14.

15.	Choose the correct pair:				
	Analytical property				Instrument
	a Absorption of radiation		1	D.S.C.	
	b Scattering of radiation		_	2	A.A.S.
	c Mass to		3	Turbidimeter	
	d	Therm proper		4	Mass spectrometer
		a	b	c	d
	A.	1	2	3	4
	B.	2	3	4	1

## 16. Chemically Mayer's reagent is\_\_\_\_\_.

2

- 1) Potassium mercuric iodide
- 3) Iodine solution

- 2) Potassium bismuth iodide
- 4) Picric acid

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

D.

3) Ammonia solution

- 2) Iodine in potassium iodide
- 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 correct pair:				
a	Visibl 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	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	
D	1	2	3	1	

22. Select the correct pair

21.

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		
		b	c	d		
	a	D	C	u		
A.	1	2	3	4		
В.	3	4	2	1		
C.	2	1	4	3		
D.	4	3	2	1		

23. Select the correct pair:

Group-I				Group-II		
a Ninhydrin		1	Alkaloids			
b	Drag	ondroff	2	Amino acids		
c	Ferri	$\mathbf{c}$	3	Phenolic		
chloride			compounds			
	a	b	c			
A.	3	2	1			
В.	2	1	3			
C.	2	3	1			
D.	1	2	3			

## 24. The theory of nebulisation is associated 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

21.	which schedule contains different types of forms in Drug and cosmetic act, 1945.				
	1) Schedule B 3) Schedule D	<ul><li>2) Schedule C</li><li>4) Schedule A</li></ul>			
28.	Which schedule is related to GMP for ASU drugs?				
	1) Schedule A 3) Schedule B	2) Schedule T 4) Schedule M			
29.	What is the maximum percentage limit of all	cohol (Ethyl alcohol v/v) in Mritasanjivani sura?			
	1) 12% 3) 10%	<ul><li>2) 16%</li><li>4) 18%</li></ul>			
30.	What is section 33EE?  1) Spurious drug  3) Adulterated drug	<ul><li>2) Misbranded drug</li><li>4) Putrid drug</li></ul>			
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?				
	<ol> <li>Misbranded drug</li> <li>Imitated drug</li> </ol>	<ul><li>2) Adulterated drug</li><li>4) Spurious drug</li></ul>			
33.	Misbranded drugs belong to which section of 1) 33B 3) 33A	of D&C Act? 2) (33E) 4) 33C			
34.	What is the shelf life of Churna an Ayurved	ic formulation?			
	1) 2 years 3) 5Years	<ul><li>2) 3Years</li><li>4) 1Years</li></ul>			
35.	Which Ayurvedic dosage form has no expired 1) Sweta parpati 3) Parpati	y date? 2) Varti 4) Vati			
36.	Which Ayurvedic dosage form became more	e efficacious with the passage of time?			
	1) Asava 3) Taila	<ul><li>2) Guggulu</li><li>4) Lepa guti</li></ul>			
37.	Which Schedule gives information about feestate drugs laboratories?	es for test or analysis by the central drugs laboratories or			
	1) Schedule F 3) Schedule K	2) Schedule Y 4) Schedule B			

38.	What is minimum space requirement for Manufacturing ASU drugs?		
	1) 1200 sq. ft.	2) 1600 sq. ft.	
	3) 1800 sq. ft.	4) 1300 Sq. ft.	
39.	What is minimum space requirement for Manufac	turing Asaya / Arishta?	
0).	1) 150 sq. ft.	2) 250 sq. ft.	
	3) 200 sq. ft.	4) 100 sq. ft.	
	5) (200 Sq. 1t.)	4) 100 Sq. II.	
40.	What is in the "First Schedule" of Drugs & Cosme		
	1) List of books	2) List of Glasswares	
	3) List of Equipments	4) List of Forms	
41.	1. What is the duration of renewal license periods for selling drugs?		
	1) (5 Years)	2) 3 Years	
	3) 4 Years	4) 6 Years	
	5)4 I cais	4) 0 1 cars	
42.	When ayurvedic drug manufacturer have to submilicensing authority?	it the register of "Record of market complaints" to	
	1) Once a year	2) Once in a six month	
	3) Every 3 year	4) Never	
	,	1) 2 (3 ( 3 )	
43.	Pilocarpine is used for:		
	1) Glaucoma	2) Paralytic ileus	
	3) Urinary retention	4) All of these	
44.	. Atropine does not antagonise the following feature of anticholinesterase poisoning:		
	1) Hypotension	2) Central excitation	
	3) Muscle paralysis	4) Bronchoconstriction	
45.	The following is a selective $\alpha_2$ adrenoceptor antagories	onist:	
	1) Prazosin	2) Yohimbine	
	3) Phentolamine	4) Clonidine	
46.	Propranolol can be used to allay anxiety associated	l with:	
	1) Chronic neurotic disorder	2) Schizophrenia	
	3) Short-term stressful situations	4) Endogenous depression	
47.		α blocking, vasodilator and antioxidant properties:	
	•		
	1) Carvedilol	2) Celiprolol	
	3) Acebutolol	4) Metoprolol	
		)·r	
48.	Sulphur is used in the treatment of		
	1) Diabetes	2) Inflammation	
	3) Tuberculosis	4) Scabies	
49.	Vaniline sulphuric acid is used to detect		
•	1) Alkaloids	2) Tannins	
	3) Volatile oil components	4) Saponins	
	·	, .	
50.	Which one is not a destructive technique in T.L.C.		
	1) Anisaldehyde sulphuric acid spray	2) Ferric chloride spray	
	3) Todine chamber	4) Ninhydrin spray	

51.	1) Vasicine 3) Piperine	2) Reserpine 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:	
	1) Liquifying bronchial secretions	2) Raising the threshold of cough centre
	3) Reducing cough inducing impulses from the lungs	4) Raising the threshold of cough centre and Reducing
		cough inducing impulses from the lungs
55	Basal thermometer is used for	
	1) Temperature determination	2) Estimation of time of ovulation
	3) Consistency of pharma products	4) Stability
<b>5</b> .0	Octuestide is a large acting synthetic analogue of	
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  3) Amphoteric	<ul><li>2) Basic</li><li>4) None of these</li></ul>
63.	HLB system was developed by 1) Griffin 3) Dalla Valle	<ul><li>2) Stock's</li><li>4) None of these</li></ul>
64.	To identify the emulsion type, which of the following 1) Dilution test 3) Conductivity test	ng tests are conducted?  2) Dye test  4) All of these
65.	The stability of suspensions can be evaluated by 1) Sedimentation volume 3) Re-dispersibility	<ul><li>2) Degree of flocculation</li><li>4) All of these</li></ul>
66.	Which of the following is not used as a emulsifying	agent?
	<ul><li>1) Surfactant</li><li>3) Electrolytes</li></ul>	<ul><li>2) Hydrophilic colloids</li><li>4) Finely divided solids</li></ul>
67.	Which of the following agents are used as flavoring	g agents
	<ol> <li>Menthol</li> <li>Both Menthol and Cinnamon</li> </ol>	<ul><li>2) Cinnamon</li><li>4) None of these</li></ul>
68.	In the formulation, to facilitate the wetting of insol	uble solids, which of the following agents used
	<ul><li>1) Suspending agents</li><li>3) Wetting agents</li></ul>	<ul><li>2) Flavoring agents</li><li>4) None of these</li></ul>
69.	To increase the viscosity of liquid, which of the foll	owing agents are used
	<ul><li>1) PVP</li><li>3) Sodium Carboxy Methyl Cellulose</li></ul>	<ul><li>2) Methyl Cellulose</li><li>4) All of these</li></ul>
70.	How surfactants will facilitate or aid wetting of hy	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 3) Sorbitol	<ul><li>2) Sucrose</li><li>4) Aspartame</li></ul>
72.	Generally pastes contain  1) (High percentage of insoluble solids)  3) Both High and Low percentage of insoluble solids	<ul><li>2) Low percentage of insoluble solids</li><li>4) None of these</li></ul>

<ul><li>1) Blistering</li><li>3) Orange peel</li><li>Which of the following method is used to determin</li></ul>	2) Flaking 4) Mottling e flow property of powders			
1) Angle of repose 3) Deflocculation	<ul><li>2) Sedimentation</li><li>4) None of these</li></ul>			
Pyrogens are generally 1) Induce joint pain 3) Increase body temperature	<ul><li>2) Decrease body temperature</li><li>4) None of these</li></ul>			
Which of the following method is not used in evalual) Angle of repose 3) Dissolution	tion of tablet 2) Disintegration 4) Weight variation			
In the preparation of vanishing creams, which type	es of bases are used generally?			
<ol> <li>Absorption bases</li> <li>Hydrocarbon bases</li> </ol>	<ul><li>2) Water removable bases</li><li>4) None of these</li></ul>			
Which of the following substances liberate water o  1) Hygroscopic 3) Deliquescent  Which of the following substances is not used as bi	<ul><li>2) Efflorescent</li><li>4) Eutectic mixtures</li></ul>			
1) CMC 3) Tale	2) PVP 4) Gums			
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			
Which of the following is not a semisolid dosage for 1) Paste 3) Ointments Which of the following substances is used to preven	<ul><li>2) Creams</li><li>4) Suspension</li></ul>			
<ol> <li>Preservatives</li> <li>Surfactants</li> </ol>	<ul><li>2) Antioxidants</li><li>4) Deflocculating agents</li></ul>			
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

74.

75.

**76.** 

77.

**78.** 

**79.** 

80.

81.

82.

83.

<b>84.</b>	Quantative 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 dra	awn?
	1) s-orbital 3) d-orbital	2) p-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 <sub>2</sub> O <sub>3</sub> 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 <sub>3</sub>	2) CH <sub>3</sub> COOH
	$3) H_2 SO_4$	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 ex	-
	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? 2) Hg (Mercury) 1) As (Arsenic) 3) Fe (Iron) 4) Pb (Lead) 99. What do you mean by Mohr's Salt? 1)  $(NH_4)_2$  Fe $(SO_4)_2$ ·6 $H_2O$ 2) CaCO<sub>3</sub> 3) FeSO<sub>3</sub> (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>. H<sub>2</sub>O 4) FeSO<sub>4</sub> (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>.10H<sub>2</sub>O 100. The equivalent weight of KMnO<sub>4</sub> 1) 35.1 2)31.6 3) 39.5 4) 31.00