3 Hours Total Marks: 75

N.B: 1. All questions are compulsory.

2. Figures to right indicate full marks.

Q. 1 Attempt all multiple-choice questions

20M

No	Question		Options
1	Calcium Gluconate is prepared by	a	mixing Calcium chloride with gluconate
	R B	b	mixing Glucose and Calcium hydroxide
	Z 37 5	c	mixing Gluconic acid with calcium carbonate
		d	mixing silica and glucose
	(5) 88° (F)		D W. W. S. W.
2	Which GIT agents are used in the	a	Laxative
	treatment of Diarrhea	3	
	8, 5, 8, 8,	b	Antacids
		С	Protective and adsorbants
		d	Saline Cathartics
		YÇ,	
3	In Lowry Bronsted concept, base is	a	Proton acceptor
20		b	Electron pair donor
5		С	Proton donor
		d	Electron pair acceptor
Á		N.	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
40	assay is based on the principle of precipitation titration.	a	Sodium Bicarbonate
?	\$ 87 ST	b	Sodium chloride
		c	Sodium thiosulphate
15		d	Sodium nitrate
200			
5	Which apparatus is used for the Limit test for arsenic?	a	Karl Fischer
		b	Gutzeit Apparatus
N.		c	Nessler Cylinder
S	186, 23, 186, 186, 186, 186, 186, 186, 186, 186	d	Arrhenius
/		0	7
6	Which statement is correct regarding the	a	Radiopharmaceuticals never be touched with
	handling and storage of radioactive materials	\$	hand
)	The State of the s	b	Sufficient protective clothing must be used while handling the materials
		С	Kept in suitable container
8		d	All of the above

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		(
7	Assay of Hydrogen peroxide is	0	Acid-Base Titration
1		a	Acid-base Hitation
	type of titration	1_	Redox Titration
		b	
	S ^r	C	Precipitation Titration
	,	d	Complexometry
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
8	is the Major intracellular	a	Sodium
	cation	X	
		b	Calcium
		c	Potassium
		d	ZInc
		4	
9	The latest edition of IP was published in	a	2020
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	b	2022
		С	2015
		d	2021
	6, 3, 3,	40	2021
10	Which of the following converts	a	Sodium thiosulphate
10 7	haemoglobin to methaemoglobin?	а	Southin thosaiphate
	macmogroom to memacmogroom:	b	Activated charcoal
		80	Sodium nitrite
<u> </u>		1	
		d	Bentonite
30 T			
511	Radioactivity was first discovered by	a	Henry Becquerel
	5° 8' 8' 8'	b.	Rutherford
5		c	J.J.Thomson
(C)		d	Madame Curie
77			£ 5°
12	are used to stop bleeding from	a	emetic
	small cuts.	40,	
, R		b	expectorant
200	\$ 5° \$° \$	С	antidote
5		d	astringent
)	(2) (8) (2) (3)	9	· · ·
13	Choose Incorrect pair	a	Antacid: Magnesium Hydroxide
- DX		b	Expectorant : Copper Sulphate
100 ×		c	Astringent : Zinc Sulphate
		d	Cathartic: Magnesium Sulphate
	8 9 B	u	Camaric. Magnesium Surphate
		-	
-39			

14	is the titrant used in the assay of ferrous sulphate as per I.P.1996.	a	Potassium Permangnate
	The sea compliante as por 1111770.	b	Sodium thiosulphate
		C /	Cerric ammonium sulphate
		d	Hydrochloric acid
	.07		Trydrocinoric deld
15	Which of the following is an emetic as	a	Sodium thiosulphate
13	well as used in the preparation of Benedict's Solution?	a	South thosaphae
		b	Ammonium chloride
		c	Copper sulphate
	B S S	d	Hydrochloric acid
		_	F R C D B
16	In the limit test for iron, purple color is due to formation of	a	Ferrous thioglycolate complex
		b	Citric acid-Ammonia complex
		С	Thioglycollic acid
		d	Ferrous citrate
-		5	
17	Example of systemic antacid is	a	Sodium Bicarbonate
		b	Calcium carbonate
7		c s	Aluminium sulphate
		d	Magnesium sulphate
- E			
18	The drug which are able to neutralize	a	Systemic acidifiers
500	the alkaline body fluids especiallyblood		
		b .	Urinary acidifiers
		c	Gastric acidifiers
<u> </u>		d	Hydrochloric acid
57			\$ [*] \(\mathcal{S}^*\)
19	Which of the following is used for treatment of goiter as well as expectorant?	a	Potassium iodide
- Ohr		b	Ammonium chloride
		c	Copper sulphate
<u>/</u>	S S S	d	Hydrochloric acid
			Trydrocinoric deid
20	are used to bring about	a	Cathartics
200	defecation	u	Cumurios
		1.	Protective and adsorbants
,		b	1 Totective and adsorbants
		D C	Antacids

Q.2	Attempt any two questions out of three	20M
1.a)	Give Principle, reaction and procedure involved in the limit test of arsenic as per IP.	5M
b)	Discuss Pharmaceutical applications of radioactive substances.	5M
2.a)	Give category and uses of Sodium Nitrite, activated charcoal, Copper sulphate, Ferro	us
	gluconate, Zinc Sulphate, Potassium Iodide.	5M
b)	Define the Limit test and give its significance. Elaborate on Limit Test for Iron.	5M
3.a)	Define Antacid. Give classification of Antacid with suitable examples. Explain the be	nefits
	of antacid combination therapy giving suitable example.	5M
b)	Write ideal properties of Antacids.	5M
Q.3	Attempt any seven out of nine	35M
1	Write a note on electrotype replacement therapy.	5M
2	Write the category, mechanism of action and uses of magnesium hydroxide, Dil. HCl	,
	Bentonite, Hydrogen Peroxide, Boric acid.	5M
3	What are astringents? Describe properties and applications of astringents with	
	suitable examples.	5M
4	Give method of preparation and uses of the following (any two)	5M
140	1. Ferrous sulphate 2. Sodium thiosulphate 3. Sodium bicarbonate	
5	Write a note on preparation, principle involved in the assay and uses of Calcium gluconate	5M
6	Classify antidotes based of mechanism of action. What is cyanide poisoning? Give the	e 5M
	treatment for cyanide poisoning.	
7	Explain the terms with suitable examples	5M
	i) Haematinics ii) Emetics iii) Expectorant iv) Chemical Antidotes v) Physiological antidotes	
8	Define and classify antimicrobials based on mechanism of action with suitable examp	oles.
	Give the action and uses of KMnO4.	5M
9	What are dentifrices? Explain following terms with suitable examples: anticaries aged dental desensitizers.	nt, 5M