(3 Hours) (Total marks: 75) 1. All questions are compulsory. 2. Figures to right indicate full marks. hoose appropriate option for the following multiple choice-based questions. astrument error can be corrected by a. Cleaning of instrument and apparatus b. Changing instrument and apparatus
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a. Cleaning of instrument and apparatus b. Changing instrument and apparatus
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a. Cleaning of instrument and apparatus b. Changing instrument and apparatus
b. Changing instrument and apparatus
a Colibration of the instrument and apparatus
c. Calibration of the instrument and apparatus d. Running a blank determination
epeatable results of analytical experiment indicatesof analytical method
a. Accuracy
b. Precision
c. Error d. Reliability
That is a measure of precision of analytical measurements?
a. Standard deviation
b. Absolute error
c. Mean absolute error
d. Mean ne strength of 1 M iodine solution is equal to solution
a. ½ N
b. 1N
c. 2N & & & &
d. 1/10 N
phedrine hydrochloride is assayed bye a. Non-aqueous acid-base titrations
b. Complexometric titration
c. Precipitation titration
d. Aqueous acid base titrations
etermination of concentration of analyte by polarography is based on a. Ilkovic equation
b. Nernst equation
c. Ohm's law
d. Faraday's Law
he curve obtained by plotting pH as ordinate against volume of titrant as
osiscissa is known as a. Neutralisation curve
b. Precipitation curve
c. Standard curve
d. Calibration curve
is used as indicator in cerimetry
a. Starchb. Ceric ammonium sulphate
c. Ferroin
d. Methyl violet
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		Paper / Subject Code: 66306 / Pharmaceutical Analysis-I
	<i>y</i>	
9	The co	oncentration 10 microgram of solute per cm ³ is
20	a.	1 ppm
,00	b.	10 ppb
4	C.	10 ppm
10	a.	10 %w/v indicator is used for strong acid strong base titrations
210	a.	Crystal violet
50 40	b.	Methyl yellow
, 9),	C.	Methyl orange
	d.	Xylenol orange
41	The tit	tration carried out between the KCl and AgNO ₃ is termed as
	a.	Precipitation titration
E. Or,		Redox titration
	c. d.	Complexometric titration Non aqueous titration
12	y u.	is an example of sequestering agent
45	a.	Dimethyl glyoxime
		Potassium chromate
	c.	Salicyaldoxime
	d.	EDTA ST
13	·	is indicator electrode
8	~ / /	SHE AND
		Silver chloride electrode Glass electrode
	d.	Calomel electrode
14		dicator used in complexometric titration are termed as
30		pM indicator
(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	b .	
9	c.	external indicator
27		adsorption indicator
15	Benze	ne is solvent aprotic solvent
28/	b.	protogenic
D.	c.	photophilic
S. O.	d.	
16		fy the correct combination of titrant and indicator:
E, John		disodium edetate and mordant balck II
45	b.	perchloric acid and phenolphthalein sodium methoxide and starch
	d.	sodium thiosulphate and phenol red
17.5		ility of inorganic precipitate is reduced by
20 00		addition of acid 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	b.	addition of organic solvent
8	æ.	increase in temperature
10	d.	addition of precipitating agent
18		solution is used as an indicator in Permangnometry
30		Cerrimetry
350	c.	lodine titration
E) S	d.	Dichromometry
	7/2	
111	35	Page 2 of 3
	2	
W. Es.	201	MTED 590E013975 C9D 7E CD CCE CCOE2E10
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19 Acidimetry is
a. Titration of base (analyte) with acid (titrant) b. Titration of acid (analyte) with base (titrant)
c. Determination of purity of acid substance
d. Blank determination of acidic solvent with base 20 Primary standards are
a. Solutions of known concentration of analyte b. Substances of highest purity
c. Substances of less purity than secondary standards d. Substances of same standards as that of secondary standard
Q. II Answer any two questions. (Any 2) 1 Explain neutralisation curves. Write a detailed note on theories of acid base indicators.
2 a. Explain the concept of accuracy and precision of analytical method 10
b. Give two examples of each of the following 1. Reagent error
2. Primary standard 3. Personal error
3 Give an overview on following redox titrations with its principle and applications 10 1. Cerrimetry
2. Iodimetry
3. Iodometry
Q. III Answer any seven questions (Any Seven) 1 Explain the principle and reaction involved in Mohr's method 5
2 Give principle and reaction involved in assay of calcium gluconate injection 5 5 5 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
4 Give principle reaction involved in determination of diazotization titration with 5
suitable example 5 Explain theory and principle of Conductometry. Give any two applications of 5
conductometry 6 What is indicator electrode? Give construction and working of glass electrode 5
7 Write in detail about DME with respect to construction, working advantages and disadvantages
8 Replicate water samples are analysed for water hardness with following results 5 102.2, 102.8, 103.1 and 102.3 ppm CaCO ₃ calculate Mean, Median and standard Deviation.
9 When 50 ml of 0.1 M HCl is titrated with 0.1M NaOH, calculate the pH values at the start of the titration and after addition of 10,50,60 ml of titrant.
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[Time:3 hours]

[Total Marks :75]

Note: Please check whether you have got the right question paper.

NB: 1. All questions are compulsory.

2. Figures to the right indicate full marks.

(a)	Using Clark's fo	eighing 20 lb. The						
)(4)	Using Clark's formula, calculate the dose for a child weighing 20 lb. The adult dose is 300 mg.							
20	(a) 40 mg	(b) 110 mg	(c) 200 mg	(d) 35 mg				
(b)	administration			orms is used for oral				
	(a) Liniments	(b)Linctus	(c) Enema	(d) Lotion				
(c)	Use of formulat	ions made up of nur	nerous plants referr	ed as				
Still		(b) Plant Vehicle		(d) Generic				
(d)	The part of the prescription called inscription contains							
0	(a) Name and	(b) Direction to	(c) Direction to	(d) Patient				
25	quantity of	the patient	the patient's	information				
3000	ingredients		relatives	105th 1050				
(e)	Who organizes the Indian Pharmaceutical Congress every year?							
4	(a) Indian	(b) Indian	(c) Indian	(d) Indian				
6.50	Pharmaceutical	Pharmaceutical	Pharmaceutical	Pharmacy				
	Association	Congress	Congress	Graduates				
			Association	Association				
(f)	Example of Lov dosage form is	v-calorie sweetening	g agents used as add	litive in liquid				
50	(a) Sucrose	(b) Fructose	(c) Dextrose	(d) Aspartem				
(g)	The ideal particle size for topical powders is							
· (5)	(a) $50 - 100$	(b) $150 - 200$	(c) $250 - 500$	(d) Above 1000				
15 B	micron	micron	micron	micron				
(h)	How many grams of dextrose required to prepare 3000 ml of 5% w/v solution							
S	(a) 150 gms	(b) 200 gms	(c) 250 gms	(d) 300 gms				
0	Y . 1			``				

Paper / Subject Code: 66307 / Pharmaceutics-I

	Paper / Subject Code: 66307 / Pharmaceutics-I
	Sept. Sept. Seller Seller Sept. Selection Sept. Seller Sept.
(i)	In heat method of preparing effervescent granules to make damp mass
\$1956°	releases 1 molecules of water of crystallization (a) Citric acid (b) Tartaric acid (c) Sodium (d) Sucrose
Party Property	bicarbonate bicarbonate bicarbonate
	Throat paints are liquid preparations (a) Viscous (b) Gas (c) Liquid (d) Solid
	Destriction and resemble to a self-institution is the
SBED SEBO(K)	Douches are meant for application in
(1)	The role of emuslifying agent is (a) (b) (c) (d)
agirlas as a state of	Reduce the Decrease surface Improves the Increase the size of interfacial area in emulsion medication taste globules
	tension between
SEE SOLL	miscible phases
(m)	Double decomposition is an example of incompatibility. (a) Chemical (b) Physical (c) Biological (d) Therapeutic
(n)	One of the following is disadvantage of cocoa butter suppository base is (a) (b) Miscibility (c) Solid at room (d) Blandness
	Polymorphism with many temperature but ingredients melts in body
	Suppositories can be prepared by
	(a) (b) Compression (c) Precipitation (d) Maceration Redispersion
(p)	is a remedy to overcome the incompatibility between oil and water
Significant Charles	(a) Addition of (b) Addition of (c) Addition of (d) Stirring of Surfactant Sweetner Antioxidant immiscible phases
(q)	Polyethylene glycol are also known as (a) Macrogols (b) Oleaginous (c) Lanolin (d) Paraffin
	(a) Macrogols (b) Oleaginous (c) Lanolin (d) Paraffin Which base should be selected when water washability is the key
it is a spatial	requirement? (a) (b) Water (c) Absorption (d) Emulsion base
ality alo	Hydrocarbon soluble base base
tiple, Solities	TELY SELLY SELLY DESCRIPTION SELLY S
	Et State Sta
DE 57 21110	R SON SEE SON 2 OF STREET
7 11128	CD4595EE105639EF58730E79350B4D5B

Paper / Subject Code: 66307 / Pharmaceutics-I

		Paper / Subject Code: 66307 / Pharmaceutics-I
	SÉ	The state of the s
	(s)	is an example of gelling agent.
Ó		(a) Pectin (b) Liquid (c) Sorbitol (d) Propylene glycol
	(t)	Which among the following ointment is prepared by chemical reaction? (a) Non- (b) Simple (c) Salicylic acid (d) Whitfield's
5		staining Iodine ointment B.P. ointment B.P. ointment
	1957	ointment BPC 1968
	O.	
508) .	Q.2 (a)	Answer any TWO Give classification of powders. Explain bulk powder for external use
	B	
(9)	(b)	Discuss identification tests and stability problems of emulsions
100x	(c)	Explain types of ointment bases. Discuss preparation methods of ointments
130	Q.3	Answer any SEVEN 35
STESS.	(a)	Discuss different career options available in the Pharmacy Profession.
6301	(b)	Define Prescription. Discuss in detail different parts of prescription
5	(c)	Classify dosage forms. Define Elixirs, liniments, lozenges and
	OFF	suppositories of the state of t
	(d)	How will you prepare 70gms of 15% Iodine Ointment from 5%, 20% &
× ×	5	25% Iodine ointment. Find out how many ml of 70%, 40% and 30% of
		alcohol should be mixed to get 55% v/v 1200ml of alcohol.
50	(e)	What are the advantages and Disadvantages of liquid dosage form? Add a
		note on vehicles used.
	(f)	Differentiate between flocculated and Deflocculated suspension
3500	(g)	Write a note on solutions instilled in body cavities
	(h)	Define displacement value. Calculate the formula for 10 bismuth subgallate
(19)	B	Suppositories each containing 300mg of bismuth subgallate. Given:
3730	95	Displacement value of Bismuth subgallate is 3.
	(i)	What are pharmaceutical incompatibilities? Mention its types and explain
		Chemical incompatibility with suitable example.
(9)	125	********
(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	SOLLY	
250	1000	
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