	Utech
Name:	
Roll No.:	To Agree of Standing and Explana
Invigilator's Signature :	

CS/B.Pharm (OLD)/SEM-3/PT-301/2009-10 2009

PHARMACEUTICAL ANALYSIS

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP - A (Multiple Choice Type Questions)

- 1. Choose the correct alternatives of the following : $10 \times 1 = 10$
 - i) Karl Fisher Reagents are
 - a) I₂, SO₂, C₅H₅N, CH₃OH
 - b) I₂, SO₃, C₅H₅OH, CH₃OH
 - c) I_2 , SO_2 , C_5H_5S , CH_3OH
 - d) none of these.
 - ii) Calomel electrode is a/an
 - a) reference electrode
 - b) indicator electrode
 - c) ion-selective electrode
 - d) oxidation-reduction electrode.

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- iii) Saturated calomel electrode contains
 - a) Hg_2Cl_2
- b) KCl
- c) none of these
- d) both of these.
- iv) Thin layer chromatography is a
 - a) quantitative analysis
-) qualitative analysis
- c) both of these
- d) none of these.
- v) Detector which is not used in Gas layer chromatography is
 - a) thermal conductive detector
 - b) flame ionization detector
 - c) electron capture detector
 - d) refractive index detector.
- vi) Sephadex column is used for
 - a) normal phase
 - b) reverse phase
 - c) gel filtration
 - d) ion exchagne chromatography.
- vii) Addy diffusion current is seen in
 - a) GLC

b) LLC

c) SLC

d) none of these.

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viii) Spray reagent is used for detection in

a) GLC

b) CC

c) HPLC

- d) TLC.
- ix) Fluorescence detection is done in TLC at
 - a) 254 nm
- b) 365 nm
- c) none of these
- d) both of these.
- x) Titrant used in diazotization titration is
 - a) NaNO₂
- b) HNO₂
- c) none of these
- d) both of these.

GROUP – B (Short Answer Type Questions)

Answer *all* the following.

 $3 \times 5 = 15$

- 2. Write a short note on DME.
- 3. Difference between chelating agent and complexing agent.

 What are metalochromic indicators? Give with examples.

2 + 1 + 2

4. Write the various methods used in preparation of plate in $\ensuremath{\mathsf{TLC}}.$

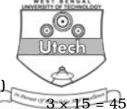
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GROUP - C (Long Answer Type Questions) Answer all the following.



- 5. Write down the utility of SCE. Give advantage & disadvantage of glass electrode. How will you rejuvenate the glass electrode? 5+5+5
- 6. How many types of column are used in GLC ? What are the components used in GLC ? Write the name of the detector used in GLC. Explain one of the detector's working principle used in GLC. 3 + 5 + 2 + 5
- 7. Why is pH important in complexometric titration? "pH 10 is ideal." Justify. Write the procedure of preparation and standardization of disodium EDTA. 3 + 3 + 9

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