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Code : 091304

B.Pharm 3rd Semester Examination, 2016

Pharmaceutical Analysis-II

Time : 3 hours

Full Marks : 70

Instructions :

(i) There are Nine questions in this paper. All questions carry equal marks.

(ii) Attempt any Five questions in all.

(iii) Question no. 1 is compulsory.

1. Answer any seven

2×7

True or false:

1. A coulomb is the quantity of electricity given by the flow of one ampere of current for one second. (T/F)
2. The principle of separation is mainly partition rather than adsorption in paper chromatography. (T/F)
3. Cadmium ions can be called electro-reducible material. (T/F)

Fill in the blanks:

4. Masking agent Triethanolamine for
5. Saturated calomel electrode is a
6. A complexing agent is an electron ion.

P.T.O.

7. Paper chromatography can be considered to be type of chromatography.

MCQ

8. In TLC the R_f value is ratio of

- (a) Distance traveled by solute of solvent
- (b) Distance traveled by solvent to solute
- (c) Both of above
- (d) None of above

9. Pyrolysis in GLC is done at a temperature between.

- (a) 100–200°C
- (b) 1000–2000°C
- (c) 2000–4000°C
- (d) 500–1000°C

10. Confirmation of the end point by adding a drop or two of the titrant is called

- (a) Fleeting end point
- (b) Floating end point
- (c) Flooding end point
- (d) Footing end point

2. Discuss chromatographic techniques and principle involved in TLC and paper chromatography. 7+7

3. What is the difference between reference and indicator electrodes? Classify different types of electrodes used in Potentiometry and discuss the principle underlying Potentiometry. 2+6+6
4. Write short notes on: 2×7=14
- (a) Principle and application of non-aqueous titration
- (b) Nernst equation and Glass electrode
5. Give an account on basic system suitability parameters used in high performance liquid chromatography (HPLC). 14
6. Write short notes on: 7×2=14
- (a) Gasometry
- (b) Instrumentation of GLC
7. Write short notes on: 7×2=14
- (a) Complexometric titrations
- (b) Gas chromatography
8. Discuss in detail polarography, its theory, principle and method of analysis. 14
9. Write a detailed note on theory, principle and application of Amperometric titration. 14
