

This question paper contains 3 printed pages]

V—194—2017

FACULTY OF SCIENCE

B.Sc. (Third Year) (Sixth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2017

ANALYTICAL CHEMISTRY

Paper XV [CHAC-304]

(Applied Analytical Chemistry-II)

(MCQ+Theory)

(Saturday, 25-11-2017)

Time : 10.00 a.m. to 12.00 noon

Time— Two Hours

Maximum Marks—40

N.B. :— (i) Attempt all questions.

(ii) All questions carry equal marks.

(iii) Figures to the right indicate full marks.

(iv) Rewrite the complete 'MCQ' one time on page number three only.

1. Answer any *four* of the following : 4×2=8

(a) Define the terms with examples :

(i) Pharmacodynamic agents.

(ii) Pharmaceutical chemistry.

(b) Explain antibacterial drugs with *two* examples.

(c) What are thrombocytes (platelets) ? Give its functions.

(d) Explain collection of whole blood analysis.

(e) What do you mean by efficiency of extraction and give it's mathematical equation.

(f) What are the characteristics of good fuel ?

P.T.O.

2. Answer any *two* of the following : 2×4=8
- (a) What are the analysis and antipyretic drugs ? Explain in detail analysis of aspirin as antipyretic drug.
- (b) Discuss the analysis of continuous extraction techniques with its schematic diagram..
- (c) Describe the complete analysis of uric acid in blood sample.
3. Answer any *two* of the following : 2×4=8
- (a) Discuss the complete analysis of phenol as antiseptics and disinfected drug that you have studied.
- (b) Describe the estimation of blood urea by Croker method with clinical interpretation.
- (c) Give an account of the sequence of the extraction process for distribution of the distributable species.
4. Answer any *one* of the following : 1×8=8
- (a) What are carbon residue of liquid fuels ? How will you determine carbon residue of liquid fuel by Conradson method with its schematic diagram.
- (b) Discuss in detail proximate analysis of coal.
5. (A) Choose the correct choice and rewrite the complete sentences with underline the the correct answer : 5×1=5
- (i) is an example of antibiotic drugs.
- (a) Aspirin (b) Novalgin
- (c) Chloromycetin (d) Alanine
- (ii) Drug act as local anaesthetic drugs :
- (a) Benzocaine (b) Benzophenone
- (c) Benzothiazole (d) Benzylchloride

- (iii) is used as body defence against infection by production of antibodies.
- (a) Leucocytes (b) Erythrocytes
- (c) Thrombocyte (d) None of these
- (iv) Reagent is used to estimate nickel in nickel complex :
- (a) Diphenylglyoxime (b) Dimethylglyoxime
- (c) Diphenylethylglyoxime (d) Dimethylplipheylglyoxim
- (v) Which of the following is a liquid fuel ?
- (a) Kerosene (b) Gasoline
- (c) Diesel (d) All of these
- (B) Write short note on : Calorific value of fuel ? 3×1=3