Fifth Semester Examination For the Degree of Bachelor of Pharmacy

PHARMACEUTICS V (PHYSICAL PHARMACY) 511

Time: Three Hours]

[Max. Marks : 80

9 16 Question No.1 is Compulsory

z

3 Attempt any Four questions from the remain-

Draw neat labeled diagram wherever neces-

Discuss the reaction, mechanism wherever necessary.

Use of electronic calculator is permitted

Assume suitable data wherever necessary.

: Solve any Five :-

Emulsions are generally milky. Justify

Define HLB. Classify surfactants according to HLB scale.

<u></u> What are lyophobic colloids?

≘ Differentiate flocculated and deflocculated suspensions

How are micro emulsions different from emulsion.

8 -ve spreading coefficient Define spreading coefficient. Write significance of

œ Explain in short mechanism consolidation of. particle 5x4=20

TKN/KS/16-6993

Contd.

'n Explain in detail factors affecting micelle formation.

TKN/KS/16-6993

ندا stability of dispersed system medium? Define zeter potential and explain its role in How is charge developed on a particle dispersed in

colloids Explain the methods to determine molecular weight of

B Explain adsorption of gases on solid surface. 7

S.

Describe adsorption technique for surface area determination

What are fundamental and derived properties? Explain particle size determination by sedimentation method.

Write short notes on any two

(a) Stabilization of emulsion

(b) Peptization and coacervation of colloids

(c) Donnan Membrane equilibrium

(d) Controlled Alocculation

TKN/KS/16-6993