NRJ/KW/17/4261

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PHARMACEUTICS—II (General and Despensing)

Paper—1

Time : Three Hours]   [Maximum Marks : 80

N.B. :— (1) Question No. **1** is compulsory.

(2) Solve any **FOUR** questions from necessary.

(3) Draw neat and labelled diagram wherever necessary.

(4) Assume suitable data wherever necessary.

(5) Use of electronic calculator is permitted.

1. Solve any **FIVE** of following :—   5×4=20

(a) Differentiate between flocculated and deflocculated suspension.

(b) What are surgical aids ? Give method of preparation of Absorbent cotton.

(c) Write in short about Plasma. substitutes.

(d) What is Proof Spirit ?

(e) Find the concentration of Sodium Chloride required to make 2% solution of Cocaine HCl iso-osmotic with blood plasma Given :

(1) Freezing point of 1% solution of Cocaine HCl = – 0.09°C.

(2) Freezing point of 1% solution of Sodium Chloride = – 0.0576°C.

(f) Write about Moulded tablet.

(g) What do you understand by isotonic solution ? State consequences of injecting paratonic solution.

2. What is Extraction ? Enlist various processes of extraction. Explain simple percolation and Soxhletion in detail.   15

3. (a) Justify role of emulsifying agent in formulation of emulsion. Classify and comment on various emulsifying agent.   8

(b) Describe various tests for identification of emulsion type.   7

4. (a) Give ideal properties of suppository bases. Give advantages and disadvantages of different suppository bases.   8

(b) Discuss in detail formulation aspect of suspension.   7

5. Differentiate between Absorbable and non-absorbable sutures. Give production, standardization, sterilization, standards and labelling of surgical catgut.   15

6. (a) Discuss various additives used in formulation of tablet. Explain various tablet defects in detail.
                                                                                                          8

(b) Explain various steps involved in sugar coating.   7

7. (a) Explain processing of Hard Gelatin capsule.   8

(b) What are Powders ? Classify it. Write in detail about effervescent granular powder.   7

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