

**DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE**

**Subject: PHARMACEUTICS- I (Theory)**

**Full Mark -80**

**Time -3 hrs**

*(Answer any five questions including question No. 1)*

**Q1. (A) Define following.**

[5x2=10]

- i) Isotonic solution    ii) Sublimation    iii) Capping    iv) Meta filter    x) Pasteurization.

**(B) Differentiate the followings**

[5x2=10]

- a) Exotoxin and Endotoxin  
b) Double maceration and Triple maceration  
c) Hard gelatine capsule and soft gelatine capsule  
d) Syrups and Elixirs  
e) Emulsion & suspension

**Q2. What do you mean by extraction? Describe briefly the process of simple maceration for organized & unorganized drugs used in the preparation of tincture.**

[2+13=15]

**Q3. Define sterilization. Why the moist heat sterilization is more effective than dry heat method? Write in details about moist heat sterilization method.**

[2+3+10=15]

**Q4. Define size reduction. Write down the different factors affecting the size reduction. Write short note on Hammer Mill**

[2+13=15]

**Q5. Define vaccines & toxoids. Describe the types of immunity. Write down method of preparation of two bacterial vaccines.**

[2+4+9=15]

**Q6. Explain the help of a neat diagram the theory, construction, working and application of the followings:**

[5x3=15]

- (i) Filling of aerosol  
(ii) Colloidal mill  
(iii) Simple distillation

**Q7. What are different types of containers commonly used in Pharmacy? Write in brief about glass container.**

[5+10=15]

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