First Year Pharmacy
PHARMACEUTICS - I
(101)

Time : Three Hours   *Maximum Marks : 80*

Note : i)   Attempt total *six* questions. Question No.1 is compulsory. From the remaining questions attempt any *five*.

ii) Illustrate your answer with neat sketches wherever necessary.

RGPVonline.com

1. Attempt any five :   2 each
    a)   Define emulsion.
    b)   Define negative mixture.
    c)   Name any two factors which affect size reduction.
    d)   Define diluent with one example.
    e)   Name the method used for separating two immiscible liquids.
    f)   Name any two materials used as filter aid.

2. a)   How will you classify different dosage forms? Write in detail about solid dosage form.   7
    b)   Explain with the help of a diagram the construction and working of ball mill. **RGPVonline.com**   7

3. a)   In what proportions should 12%, 8% and 3% alcohol be mixed to get 5% alcohol?   6
    b)   Write equivalent value of the following.   2 each
        i)   1 Gallon = _____ fluid ounces
        ii)   1 Wineglass = _____ ml
        iii) 1 Fluid ounce = _____ minims
        iv)   1 Pint = _____ Fluid ounces

4. Differentiate between: **RGPVonline.com**   3.5 each
    a)   Infusion and decoction
    b)   Hard gelatin capsule and soft gelatin capsule
    c)   Syrup and elixir
    d)   Endotoxin and Exotoxin

5. a)   Discuss moist heat sterilization.
    b)   Describe various equipments used for semisolid mixing.
    c)   Discuss about glass containers.
    d)   Write method of preparation of smallpox vaccine.   3.5 each

6. a)   Mention the defects which can occur in compressed tablets. How can such defects can be removed.
    b)   Describe construction, working and uses of cyclone separator?   7 each

7. Write short note on any four: 3.5 each
    a)   Sugar coating
    b)   Fractional distillation
    c)   Plate and Frame filter press
    d)   Official standards for powders
    e)   Types of Immunity   **RGPVonline.com**