

BRAINWARE UNIVERSITY

Term End Examination 2019 - 20

Programme – Diploma in Pharmacy
Course Name – Pharmaceutics I

Blain
Barasa

Brain & January Barasat, kolkata-700125

Course Code -1.1T

(D. Pharm first year final)

| Time al | lotted: 3 | Hours |
|---------|-----------|--------|
| | | TIONIS |

Full Marks: 80

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group -A (Multiple Choice Type Question) $20 \times 1 = 20$ 1. Choose the correct alternative from the following (i) Dusting powders should be passed through sieve no. _____ to enhance its effectiveness a. 85 b. 60 c. 40 d. 20 (ii) In metric system, 1 tea cupful is equal to a. 30 ml b. 60 ml c. 90 ml d. 120 ml (iii) Amber colour mainly gives protection froma. Oxidation b. Reduction c. Hydrolysis d. Photo-degradation Which of the following is not a mixing mechanism? (iv) a. Diffusion b. Shear c. Convection d. Conduction (v) The rate of filtration is to the viscosity of the liquid. a. Directly proportional b. Inversely proportional c. Equal d. Not related

| (vi) | Fixed oils can be extracted using | |
|--------|--|---|
| | a. Vacuum still | b. Molecular still |
| | c. Water still | d. Fractional distillation |
| (vii) | Following is not the mechanism of size re | eduction |
| | a. Impact and attrition | b. Cutting |
| | c. Bruising | d. Elutriation |
| (viii) | Integrity tests are intended for following | filters: |
| | a. Leaf filters | b. Drum filters |
| | c. Membrane filters | d. Edge filter |
| (ix) | The abbreviated form of cGMP is | |
| | a. Current Good Manufacturing Practices | b. Clear Good Manufacturing Practices |
| | c. Certified Good Manufacturing Practices | d. Concrete Good Manufacturing Practices |
| (x) | Chemically Veegum is | |
| | a. Magnesium silicate | b. Aluminium silicate |
| | c. Magnesium aluminosilicate | d. Calcium oxide |
| (xi) | An unequal distribution of colour on the | e surface of the tablet is called |
| | a. Cracking | b. Chipping |
| | c. Picking | d. Mottling |
| (xii) | Major problem for the controlled releas | |
| | a. Occurrence of dose dumping | b. To maintain therapeutic occupancy time |
| | c. a and b both | d. To determine AUC |
| (xiii) | The storage temperature for soft gelating | |
| | a. 21–24°C | b. 15–18°C |
| | c. 18–20°C | d. 25–27°C |
| (xiv) | Which is not a type of a tablet? | |
| 7 | a. Troches and lozenges | b. Effervescent tablets |
| | c. Pessaries | d. Tablet triturates |
| (xv) | 3 size of capsule will have m | 1 capacity |
| | a. 1.3 | b. 0.95 |
| | c. 0.68 | d. 0.30 |

| | TEC/1.11 (DC) / 20 | 117 - 40 | |
|---------------------------------|--|------------|--|
| (xvi | Magnesium stearate is used as | | |
| | a. Antioxidant b. Antiadherent | | |
| | c. Tablet glidant d. Film coating | | |
| (xvi | i) Chilsonator is used as | | |
| | a. Tablet coating b. Capsule filling machine | | |
| | c. Tablet granulator 8 - 25°C d. None of the above | | |
| (xvi | ii) is not a plastisizer. | | |
| | a. Polyethylene glycol b. Propylene glycol | | |
| | c. Polycarbonate d. Tween | 2 | |
| (xix | is widely used in chewable tablet. | 0 2 | |
| | a. Starch b. Mannitol | 4 4 5 | |
| | c. Lactose d. PVP | 155 | |
| (xx) | Temperature range for the dissolution test as per IP is | 4 | |
| | a. 37±1°C b. 37±0.1°C | E F | |
| | c. 37±2°C d. 37±0.5°C | Pha | |
| | | | |
| | Group – B | | |
| | (Short Answer Type Questions) | 8 x 5 = 40 | |
| W. 2103 | | | |
| | wer any eight from the following | | |
| | Write a note on weight variation test for tablets according to I. P. | | |
| 3. | | | |
| 4. | Write the advantages and disadvantages of capsules. | | |
| 5.6. | Discuss about drug- plastic interaction. | | |
| 0. | What do you mean by organized drug and unorganized drug? Add a note on infusion. | 2+3 | |
| 7. | Explain why moist heat sterilization is more effective than dry heat method. Write the advantages and disadvantages of moist heat sterilization. | | |
| 8. | Write a note on B. C. G. vaccine. | 5 | |
| 9. | Explain the method based on freezing point data for solution isotonic with blood and tear. | | |
| 10. | Mention the advantages and disadvantages of glass as a packaging material. | 5 | |
| 11. | Define distillation. Mention the application of simple distillation process in Pharmacy. | 1+4 | |
| | | | |

Group - C

| | 2 10 20 |
|------------------------------|--------------------|
| (Long Answer Type Questions) | $2 \times 10 = 20$ |

| Answer any two | from | the foll | owing |
|----------------|------|----------|-------|
|----------------|------|----------|-------|

| Answer | r any two from the following | 10 |
|--------|--|----|
| 12. | With a neat diagram write the theory, construction and working of fluidized bed | 10 |
| | dryer. | 10 |
| 13. | Briefly describe the method of wet granulation in tablet preparation. | 10 |
| 14. | With a neat labeled diagram, discuss the principle, construction and working of ball mill. | 10 |