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Azara, Hatkhowapara,
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Roll No. of candidate

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2019

D.Pharm. 1st Year End-Term Examination

PHARMACEUTICS — I

(New Regulation)

Full Marks – 80

Time – Three hours

The figures in the margin indicate full marks
for the questions.

Answer Q. No. 1 is compulsory.

(20 × 1 = 20)

1. (A) Fill in the blanks :

- (i) Soap is included in liniments because it helps in _____ of the liniment on skin.
- (ii) The emulsion meant for external use should be _____ type.
- (iii) The first international pharmacopocia was published by _____ in (volume I) and in _____ (volume II)

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- (iv) Cork is obtained from the bark of _____ tree.
- (v) _____ are used to separate the suspension of a solid in a gas (air).
- (vi) The rate of filtration is _____ proportional to the surface area of the filter media.
- (vii) The process of extraction in which the drug is kept in contact with menstrum for 15 minutes is called _____.
- (viii) Liquids which decompose at or below their boiling point are purified by _____.
- (ix) Proper drying prevents the _____ of the products.
- (x) The substances that assist or retards the growth of bacteria is known as _____.

(B) Choose the correct answer :

- (i) The term "Tandallisation" stand for
- (a) successive 3 days heating at 80°C for one hr.
- (b) Heating at 115°C
- (c) Heating with bactericide at 121°C
- (d) None of the above.

- (ii) Which one of the following is an disadvantages of autoclaving?
- (a) it is unsuitable for sterilization of powders and oils.
 - (b) It cannot be used for sterilization of injections and articles, such as plastics which get spoiled at 115–116°C for 30 minutes
 - (c) both (a) and (b) is correct
 - (d) none of the above
- (iii) Copping is the
- (a) Partial and complete removal of top and bottom portion of the tablet.
 - (b) When the material is removed up by the upper punch from the upper surface of the tablet?
 - (c) Unequal distribution of colour.
 - (d) All of the above.
- (iv) Magnesium stearate is an example of
- (a) disintegrating agents
 - (b) binding agents
 - (c) lubricating agent
 - (d) diluents.

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(v) The disintegration test is not required for

- (a) lozenge tablets and chewable tablet
- (b) enteric coated tablet
- (c) fast dissolving tablet
- (d) un coated tablet.

(vi) Cellacephate used in

- (a) enteric coated capsule
- (b) sustained release capsule
- (c) soft capsule
- (d) none of the above.

(vii) Titanium dioxide is a

- (a) humectants
- (b) opacifying agent
- (c) lubricants
- (d) all of the above.

(viii) The capsule number '000' having approximate capacity in mg is

- (a) 650 mg
- (b) 750 mg
- (c) 950 mg
- (d) 100 mg.

(ix) Linctus are meant for

- (a) relief of cough
- (b) flavours and vehicle
- (c) soothen the skin
- (d) none of the above.

(x) Which of the following are sweetening agent?

- (a) Sucrose
- (b) aspartame
- (c) mannitol
- (d) all of the above.

2. Answer any *six* of the following : (6 × 5 = 30)

- (a) What is monophasic liquid dosage form? Write details about syrup and elixirs?
- (b) Find the proportion of sodium chloride to make a 1% solution of a cocaine hydrochloride iso-osmotic with blood plasma.
- (c) Write brief about hydrolytic resistance test. Why it is necessary to perform this test on glass container meant for parenteral products? Write the disadvantages of glass container.
- (d) Describe in brief the various methods of size separation.

- (e) Define "homogenisation". Write the principle of homogenisation. Write in detail about colloidal mill.
- (f) Write a brief notes on Soxhlet apparatus and the extraction process by it.
- (g) Write in details about aseptic techniques.

3. Attempt all *three* questions. (3 × 10 = 30)

- (a) What is tablet? Write the advantages and disadvantages of tablet as dosage form. Explain in brief the various types of excipients which are generally required in the formulation of tablet.
- (b) Differentiate between hard gelatin and soft gelatin capsule. Describe the manufacturing technology of hand operated capsule filling machine and rotary machine.
- (c) Write short notes on : (3 + 3 + 4 = 10)
 - (i) Filter aids
 - (ii) Aerosol packaging
 - (iii) Manufacturing defects of tablet.

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