



HDU-02011245

Seat No. _____

M. Pharm. (Sem. III) Examination
November / December – 2017
Herbal Drug Technology (Core - VII)

Time : 3 Hours]

[Total Marks : 80

- Instructions :**
- (1) Answer and tie both the sections separately.
 - (2) Figures to the right indicate marks.
 - (3) Answer any three from each section except 1 and 5 are compulsory.
 - (4) Draw neat and clean diagram when required.

SECTION - I

1 Answer any seven out of given 10 questions : **2×7=14**

- (1) Define prebiotics with its importance.
- (2) Explain importance of omega-3 and omega-6 fatty acids.
- (3) Why preservatives are included in herbal formulations?
- (4) Define cream with its ideal characteristic.
- (5) Write any three biological source of herbal hair colorant.
- (6) Justify the comment : "knowledge of the pharmacognosy of the drug is essential to selection of the extraction process".
- (7) Discuss advantages of Counter-current Extraction.
- (8) Justify the comment "Women who are trying to become pregnant, or who are pregnant should take folate".
- (9) Give name of any two National plant authentication body.
- (10) Differentiate decoction and infusion.

2 Answer the following :

- (1) Discuss Soxhlet extraction method with proper diagram, principle, merits and demerits. **7**
- (2) Discuss different extraction method for volatile oil extraction. **6**

- 3** Answer the following :
- (1) Write note on phytoequivalence and Pharmaceutical equivalence. **7**
 - (2) Write note on W.H.O. policy on herbal medicine. **6**
- 4** Answer the following :
- (1) Determination of Ash value and extractive value as per WHO with its significance. **7**
 - (2) Note on source and description of raw materials like fixed oil, gums and waxes. **6**

SECTION - II

- 5** Answer any **two** out of three : **7×2=14**
- (1) Define extraction and discuss selection criteria for solvent in Extraction of herbals.
 - (2) Write note on herbal Pharmacovigilance.
 - (3) Write note on Herb as a functional food.
- 6** Answer the following :
- (1) Discuss preparation and standardization parameter for tulsi extract as per WHO guideline. **7**
 - (2) Write note on monoherbal and polyherbal formulations with merits and demerits. **6**
- 7** Answer the followings :
- (1) Write a note on herbal Hair care products and its analysis. **7**
 - (2) Note on Role of natural product in herbal medicine. **6**
- 8** Answer the followings :
- (1) Write note on Stability studies for extracts. **7**
 - (2) Write digestive enzyme, Probiotics and dietary fibres as nutraceuticals. **6**