



PAN-1612060701080600 Seat No. _____

M. P. M. (Sem. VIII) (W.E.F. 2016) Examination

August - 2020

Pharmacognosy : Paper - VII

Time : 3 Hours]

[Total Marks : 80

- Instructions :** (1) Figure to the right indicate marks.
(2) Answer any three questions from each section.
(3) Question No. 1 and Question No. 5 are compulsory.
(4) Draw neat & clean diagrams as required.

SECTION - I

1 Answer any Seven out of Ten : 14

- (1) Explain about super critical fluid extraction method.
- (2) Give the Principle of phenol sulphuric acid reagent method for the estimation of carbohydrate content.
- (3) Give identification test for Quinine.
- (4) How to find out Acceptable Residual Limits (ARL) of pesticides?
- (5) Define Extractive value. Give application of it.
- (6) Give two hepatoprotective herbal drugs with mechanism of action.
- (7) Enlist principle of ISO9000.
- (8) How to isolate podophylotoxin?
- (9) Describe in brief about planer chromatography.
- (10) Define Ash Value. Give application of it.

2 Answer the following questions :

- (1) Enlist evaluation parameter of phytopharmaceuticlas. **7**
How to find out total tannin content?
- (2) Define standardization. Write in detail about **6**
preparation and evaluation of amla Extract.

- 3** Answer the following questions : **7**
- (1) Explain the term GMP. Write in detail about requirement of factory premises as per schedule T for herbal industry. **7**
 - (2) How to isolate sennoside from senna leaflets? Give its identification test and analysis. **6**
- 4** Answer the following questions :
- (1) Write in detail about Folin ciocalteu reagent method for estimation of total phenolic content of herbal drug. Why this method is known as Gallic acid equivalent method? **7**
 - (2) Discuss principle, instrumentation and application of HPLC for analysis of herbal drug. **6**

SECTION - II

- 5** Answer any **Two** out of Three : **14**
- (1) Write note on recent development of natural products used as (1) Anticancer (2) Anti diabetics
 - (2) Write about isolation, identification and analysis of Atropine.
 - (3) Explain in detail about hot percolation method of extraction.
- 6** Answer the following questions :
- (1) Describe in detail about isolation of diosgenin. Give its identification test. **7**
 - (2) Write a short note on antiasthmatic herbal drugs. **6**
- 7** Answer the following questions :
- (1) Give isolation method of morphine and penicillin. **7**
 - (2) Write in detail about establishment of ISO9000 in herbal drug industry. **6**
- 8** Answer the following questions :
- (1) Write a short note on herbal drug used as anti hyperlipidemic agents. **7**
 - (2) Write a detailed note on GC-MS as tool for analysis of herbal drugs. **6**