



Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
M. Pharm – SEMESTER– II • EXAMINATION – SUMMER -2018

Subject Code: MPG202T**Date: 16/05/2018****Subject Name: ADVANCED PHARMACOGNOSY II****Time: 10:30AM TO 01:30PM****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

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| Q.1 | (a) | What are the merits and demerits of herbal drug therapy over conventional drug therapy? | 06 |
| | (b) | Write a note on validation of herbal therapies. | 05 |
| | (c) | Write a note on efficacy of herbal medicine products. | 05 |
| Q.2 | (a) | Write a note on DNA fingerprinting techniques in identification of herbal drugs. | 06 |
| | (b) | Write a note on causes and measures of adulteration. | 05 |
| | (c) | Write a note on detection of microbial contamination in herbs and their formulations. | 05 |
| Q.3 | (a) | Write a note on methods for estimation of heavy metals and pesticide residue in herbs. | 06 |
| | (b) | Write a note on methods for determination of foreign matter in herbs. | 05 |
| | (c) | What adulteration? Write in detail types of adulteration/substitution of herbal drugs. | 05 |
| Q.4 | (a) | What is the impact of ethnobotany in traditional medicine? | 06 |
| | (b) | Explain the role of ethnopharmacology in drug evaluation. | 05 |
| | (c) | Write a note on Reverse pharmacology. | 05 |
| Q.5 | (a) | Give analytical profile of <i>Curcuma longa</i> . | 06 |
| | (b) | Write down the analytical profile of <i>Boswellia serrata</i> . | 05 |
| | (c) | Explain the analytical profile for <i>Amla</i> . | 05 |
| Q.6 | (a) | Give a note on analytical profile of a hepatoprotective drug from your syllabus. | 06 |
| | (b) | Enlist the in vitro models for screening of antioxidant activity. Explain any two of them. | 05 |
| | (c) | Enlist the in vitro models for screening of antimicrobial activity. Explain any one of them. | 05 |
| Q.7 | (a) | What is biological screening of herbal drugs? What is its need for phytopharmacological screening? | 06 |
| | (b) | Explain any one in vivo model for screening of anti-inflammatory activity. | 05 |
| | (c) | Explain STZ-induced model for screening of anti-diabetic activity in rats. | 05 |
