

Seat No.:-----

Enrolment No.:-----

**UKA TARSADIA UNIVERSITY**

Maliba Pharmacy College

B. Pharm 5<sup>th</sup> Semester Internal Examination 2013 (*Mid-Sem 1*)

**030020504- Pharmacognosy-III**

Time: 1:30 p.m. To 3:30 p.m.

Max. Marks: **40**

Date: 03/09/2013

**Instructions:**

- Attempt any **FIVE** questions.
- Each question carries **08** marks.
- Make suitable assumption whenever necessary.
- Figures to the right indicate full marks.

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|-----|----|--|---|
| Q.1 | A) | Write down the classification of alkaloids with suitable examples.                   | 6 |
|     | B) | Enlist various medicinal uses of <i>Withania somnifera</i> .                         | 2 |
| Q.2 | A) | Discuss the steps involved in biosynthesis of drug which is derived from tryptophan. | 5 |
|     | B) | Write the name of two terpenoidal indole alkaloids with their chemical structures.   | 3 |
| Q.3 | A) | Draw a well labeled T.S. of Vasaka leaf.   | 4 |
|     | B) | Describe the collection of morphine from Opium poppy.                                | 4 |
| Q.4 | A) | Differentiate Panama and Brazilian Ipecac.   | 4 |
|     | B) | Write a short note on cancer tree.   | 4 |
| Q.5 | A) | Enlist different types of organ culture and describe any three.                      | 4 |
|     | B) | Describe various compositions of nutrient media with examples.                       | 4 |
| Q.6 | A) | How the callus tissue is formed? Write significance of it.                           | 4 |
|     | B) | What is cryopreservation? Mention its importance.                                    | 4 |
| Q.7 | A) | Describe applications of plant tissue culture techniques.                            | 5 |
|     | B) | How will you sterile explants and nutrient media?                                    | 3 |