



# Gujarat Ayurved University Jamnagar

Experiment No. \_\_\_\_\_

1.0 TITLE :

2.0 Aims and objectives:

3.0 Requirements:

Apparatus:

Chemicals:

Crude drug:

4.0 Diagram:

Crude drug

plant photograph

5.0 STEP WISE PROCEDURES:

5.1 Synonyms :

5.2 Biological source :

5.3 Macroscopy:

Organoleptic characters:

5.3.1 -----

5.3.2 -----

5.3.3 -----

5.4 **Microscopy :**

5.4.1 -----

5.4.2 -----

5.4.3 -----

5.5 **Chemical constituents**

5.6 **Rasadipanchaka:**

5.6.1 Rasa

5.6.2 Guna

5.6.3 Virya

5.6.4 Vipaka

5.6.5 Prabhava

5.7 **Major Pharmacological actions and uses**

5.8 **Allied drugs/ adulterants**

5.9 **Visista yoga(Marketed formulations)**

5.10 **Procedure:**

5.10.1

5.10.2

5.10.3 Preparation of sample for sectioning

5.10.4 Staining Process

5.10.5 Mounting Process

**6.0 OBSERVATIONS:**

6.1 Observation table on macroscopic and organoleptic characters:

| Sl No | Test           | Observations |
|-------|----------------|--------------|
| 1.    | Size           |              |
| 2.    | Shape          |              |
| 3.    | Surface        |              |
| 4.    | Colour         |              |
| 5.    | Odour          |              |
| 6.    | Taste          |              |
| 7.    | Fracture       |              |
| 8.    | Extra features |              |

6.2 **Observation on Microscopical characters :**

6.3 **Observation table on microchemical tests**

| Sr. No | Test                                   | Observation | Inference |
|--------|--|-------------|-----------|
| 1      | T.S. + Phloglucinol+<br>Conc. HCL      |             |           |
| 2      | T.S. + Iodine solution                 |             |           |
| 3      | T.S. + Dil. HCL                        |             |           |
| 4      | T.S. + Dil. Sulphuric<br>acid(60% w/w) |             |           |
| 5      | T.S. + Ferric chloride                 |             |           |
| 6      | T.S. + Sudan III                       |             |           |

7.0 **CONCLUSION:** The given crude drug, due to presence of morphological characters like----- &microscopical characters like ----- is found to be -----

8.0 **QUESTIONS :**

Write answers to following questions (Questions to be allotted by the subject teacher.

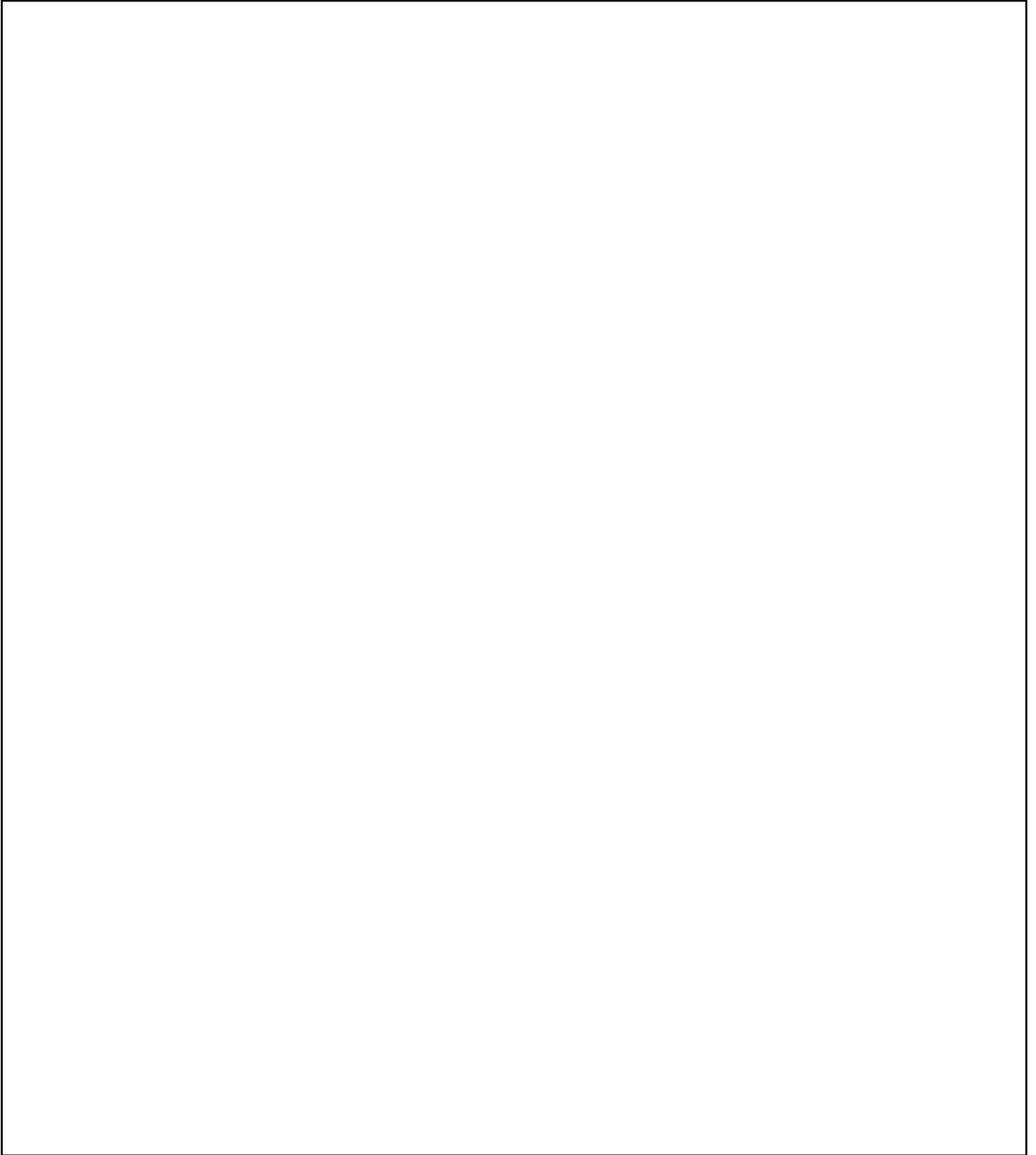
Subject

(Teacher shall also add few more relevant questions)

1. Give biological source of ----- stem.
2. Draw neat labeled macroscopical diagram of ----- stem.
3. Which microscopic character is detected by phloroglucinol in case of -----stem?
4. Write two crude drugs, which contain starch in their stem
5. Mention the adulterant of -----stem in the market
6. Give the process of chemical test by which starch are detected from ----- stem.
7. Write three synonyms of -----pertain to its morphological characters.
8. Which alkaloids are present in ----- stem?
9. Write four Therapeutic indications of of-----stem.
10. Why is -----is considered ad jwarahara?
11. How ----- is propagated?
12. What are the *grahyaswarupa* (identifying characters) of -----

**(Space for answers of point no 8.0)**

## Figure showing macroscopic features



**Figure showing microscopic features**

