Department of Botany, S.P. Pune University, Pune-411 007

M.Sc. Botany Entrance Test

Seat No. of the Candidate

Sign of the Invigilator

Seat No. in words: _____

10th June 2016 **Maximum Marks: 100** **Time: 180 Minutes**

INSTRUCTIONS FOR THE CANDIDATE

Read the following instructions carefully

1. Write your Seat No. in the space provided on the top of this page, as well as on the answer sheet supplied to you. If you write your name or any special marks on any part of this document, which may disclose your identity, you will be liable for disqualification.

2. This booklet contains **100 multiple choice type of questions**.

3. Each question has four alternative responses marked a, b, c and d. You have to darken the correct response using pen against each questions indicated below.

EXAMPLE: 

Where  is the correct response.

4. Each question carries one mark.

5. Your responses to the questions for this paper are to be indicated on the answer sheet provided. Responses like **(X) or or √ and light shading will not be considered or evaluated.**

6. Answer marked on the body of the question paper **WILL NOT BE** evaluated.

7. One sheet is attached at the end of booklet for rough work.

8. You should return the test booklet and answer sheet to the invigilator at the end of this test. Do not carry any paper outside the examination hall.

♦♦♦

9. The origin of tapetum in most angiosperms is from the following tissue in anthers

a. parietal layer b.connective tissue

c. both parietal layer and connective tissue d. sporogenous tissue

10. The type of ovule in family Cactaceae is

a.Orthotropus b.anatropus c.circinotropus d. amphitropus

11. The cobs of maize consist of

a. male flowers b. female flowers

c. male and female flowers d. male, female and neutral flowers

12. The endosperm in angiosperms usually develops from fusion of

a. three diploid nuclei b. three triploid nuclei

c. three haploid nuclei d. one haploid and two diploid nuclei

13. The shoot apex in embryo occupies lateral position in

a.Poaceae b. Asteraceae c. Fabaceae d.Balsaminaceae

14. In *Dracaena* the secondary cambium originates from

a.Vascular cambium b. Cortex c.Endodermis d. Phloem

15. In order to resist the bending stress in aerial cylindrical plant parts like stems the mechanical tissues are distributed.....

a. near the periphery in a circle in the form of girders

b. near the center in the form of column

c. near the base in the form of compact mass of cells

d. near the apex in the form of discrete patches

16. Multiple epidermis is seen in the leaves of.....

a. Ficus *b.Bignonia* *c. Annona* *d. Dracaena*