

UNIVERSITY OF EDUCATION

"UEXAM" Semester-II, 2019

BS Chemistry/BS Botany/BS Zoology, Session:2018-2022

Course Code: BOTN1112

Subject: Plant Systematics, Anatomy and Development

SECTION: I (MCQ's)

Time Allowed: 15 Minutes

Max. Marks: 12

NOTE: Encircle the correct/ best answer in each of the followings. Each Question carries 1 mark. Use of remover carries zero mark. Cutting and Overwriting is not allowed.

No. 421

Roll No. (in fig.) \_\_\_\_\_

Roll No. (in words) \_\_\_\_\_

Candidate's Signature. \_\_\_\_\_

Signature of Addl. Supdt. \_\_\_\_\_

Q1.

- Cruciform corolla is the distinguishing character of family?  
a) Brassicaceae b) Rosaceae c) Liliaceae d) Solanaceae
- Ring form vascular bundles are present in:  
a) *Zea mays* b) *Triticum aestivum* c) *Solanum tuberosum* d) Both a and b
- Hard wood is present in:  
a) Sheesham b) Mango c) Gymnosperm d) both a and b
- Fruit of mustard is:  
a) Legume b) Siliqua c) Follicle d) Silicule
- Scientific name of tomato is:  
a) *Solanum tuberosum* b) *Solanum melongena* c) *Lycopersicum esculantum* d) *Solanum esculantum*
- Which is correct for monocot characters?  
a) Ring shaped vascular bundle b) Reticulate venation  
c) Scattered vascular bundle d) Tap roots
- Marginal placentation is found in:  
a) Orange b) Tomato c) Pea d) Cucumber
- Cambium is usually absent in  
a) None b) monocot c) dicot d) gymnosperm
- ----- is an example of nut.  
a) Peanut b) coconut c) water chestnut d) all
- Linnaeus is credit with introducing:  
a) The concept of inheritance b) law of limiting factor c) theory of heredity d) binomial nomenclature
- Which of the following structure is not associated with epidermis  
a) Root hairs b) Pith cells c) trichome d) Guard cells
- Margins of the sunflower leaves are:  
a) Entire b) serrate c) dentate d) Palmate

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"UEXAM" Semester-II, 2019

Chemistry/BS Botany/BS Zoology, Session:2018-2022

BS

Course Code: BOTN1112

Subject: Plant Systematics, Anatomy and Development

Time Allowed: 75 Minutes

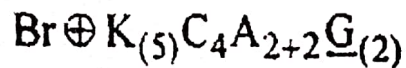
Max. Marks: 33

**Section II** (Short Answer)

Q.2- Write short answers of the following.

3x5 = 15

- (i) What do you know about sclerenchyma and aerenchyma cells?
- (ii) What are stomata? Describe the function and type of stomata.
- (iii) Define influences and describe catkin, spike and umbel influences with examples.
- (iv) Draw a floral diagram based on following formula.



- (v) Differentiate between tap roots and adventitious roots. Give example of each.

**Section III** (Essay Type)

Answer the following Questions

6x3 = 18

Q.3:- Define tissues. Differentiate between simple and complex tissues. Write different type of simple tissues

Q.4:- Explain some theories about development of shoot apical meristem.

Q.5:- Write down the characters of family solanaceae. Also give the floral formula and diagram and economic importance of this family