## Navrachana University School of Liberal Studies and Education, B.Sc Program **End-Semester Examination May 2017**

## First Year and Semester II

Course name: Angiosperm Morphology and Classification (BO105)

Date: 09.05.17

Marks: 40

Time: 10:30 am - 12:30 pm

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→ All the Questions are Compulsory

→ Please read the questions carefully and answer accordingly

→ Draw a neat and labeled diagram wherever necessary

Q.1. (a) Choose the correct answer from the given options (5 marks)
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1. All the following structures are present in dicot seed except
a) radicle b) endosperm c) coleoptiles d) seed coat
2. Which of the following feature distinguish a monocot from a dicot plant
a) phyllotaxy b) venation c) vernation d) aestivation
3. An incomplete, perfect flower is one that:
a) has calve, corolla, androecium, and gynoecium
b) has calyx, corolla, and androecium c) has calyx and gynoecium
d) has corolla, androecium, and gynoecium
4. Which of the following patterns of placentation is observed in a bicarpellary, syncarpous, unilocular
ovary becoming bilocular due to the development of a false septum?
a) axile placentation b) parietal placentation
c) basal placentation d) superficial placentation
5. Some plants have rhizome and roots as underground structures. Which characteristics of rhizome would distinguish them from roots?
a) rhizomes are thicker than roots b) rhizomes have scaly leaves
c) rhizomes are thinner than roots d) none of the above
6. Jack fruit is developed from
a) Monocarpous pistil b) Apocarpous pistil c) Syncarpous Pistil d) Infloresence
7. A scar on the seed coat through which the developing seed is attached to the fruit is
a) hypocotyl b) coleorhizae c) epicotyls d) hilum
8. There are two clusters, each with 3-9 flowers on a node in the axis of opposite leaf and each cluster
has a condensed dichasial cyme ending in monochasial cyme and flowers have lever mechanism, it
represents
a) cyathium b) coenanthium c) verticillaster d) hypanthium
9. Placentation in tomato and lemon is
a) axile b) parietal c) free central d) marginal

10. In albuminous plants, foo	od is stored		
a) endosperm	b) cotyledons c) embry	o d) plumule	
Q.1 (b) Provide the scientifi	ic terms for the following:	(5 n	narks)
(i) The leaf without a			
	anded portion of a leaf		
(iii) Orderly arranger	ment of leaves on the node		
(iv) Stalk of infloresc	cence		
(v) Flower with umb	orella shape		
Q. 1 (c) Define the following	g terms:	(5 m	arks)
(i) Aestivation	(ii) Placentation	(iii) Monoadelphous Stamen	
(iv) Superior ovary	(v) Perigynous flower		
Q. 2. Answer in brief (Any		(10 to the statement on the basis of external	marks)
		at other structures compose flowers?	1
3. Distinguish between co	orymb and umbel.		
4. Can you cite two exam	nples where leaves perform	functions other than photosynthesis?	
5. A seed can dehisce in	how many ways for dispers	al of seeds.	
6. How can you tell the d	ifference between a simple	leaf and a single leaflet belonging to a	compound
leaf?			
Q. 3. Write short notes on (	(Any 2)	(7 r	narks)
1. Aerial modification of	stem		
2. Venation			
3. Fleshy fruits			
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Q.4. Answer in detail (Any	2)	(8 n	arks)
1. If a student comes to	you with a flower and an in	nflorescence, how will you explain the	;
difference? Explain a	any one type of inflorescend	ee.	
2. Describe any one typ	e of germination process		
3. Explain the different	types of dry fruits and descri	ribe any one type in detail with examp	les.
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