



2nd year (Bot & chem)
Date : 26 / 1 / 2017
Time : 2 Hour

Benha University
Faculty of science
Botany Department

Taxonomy examination (232 n)- 48 Mark

Answer the following questions:-

1- Compare between:- (20 mark)

a-Marginal – Axile (placentation).

b- Racemose –Cymose (Inflorescnces).

2- Write on :- (20 mark)

a-Cross pollination.

b-Fleshy fruits.

3- Complete the following:- (8 mark)

a-The essential floral organs are..... and

b-.....flowers characterizing the monocotyledonous plants

c- When stamens are free is said to be.....

D.r / Ahmed Abd El Razek

Signature ()

نموذج إجابة مادة تصنيف زهري ٢٣٢ ن
تاريخ الامتحان : ٢٦ / ١ / ٢٠١٧
أستاذ المادة : د/ أحمد عبد الرازق
كلية العلوم – جامعة بنها

1-Compare between:-

a-Marginal – Axile (placentation).

Marginal placentation in this type plasenta developing along the junction of the two margin of the carpel in monocarpellary and unilocular ovary e.g plant belong to family leguminosae. Whil in axile placentation the carpls are folded and the united inturned margin of two adjacent carpls from two true septa which extend right up to the center of the ovary where they meet and fruse to form an axile column which thickens to form an axile placentation'

b- Racemose –Cymose (Inflorescnces).

Racemose on momopodial branche and flowers are arranged in acropetal and centripetal succession but in Cymose on symopodial branche and flowers arranged in basipetal and centrifugal succession.

2- Write on :-

a-Cross pollination.

In the case of Cross pollination, the pollen grain are carried in various ways to the stigma or stigmas of anther flower either on the same plant or on a different plant of the same species (allogamy), it is the much more common in plants than self-pollination and needs the assistance of some external agent to transfer the pollen from one flower to anther (wind-insect-water)

b-Fleshy fruits

Fleshy fruits they are also known as succulent fruits. The pericarp is fleshy, differentiated into three distinct layers, epicarp, mesocarp and endocarp.

False fleshy non-ovarian parts such as the receptacle participate in the formation of the fruits. These fruits are called pseudocarps fleshy

3- Complete the following:-

a-The essential floral organs are Androecium. and Gynoecium

b-Tri-cyclic flowers characterizing the monocotyledonous plants

c- When stamens are free is said to be Polyandrous