



4th year (Bot & chem)
Date : 26 / 5 / 2019
Time : 2 Hour

Benha University

Faculty of science

Botany Department

Taxonomy examination (232 n)- 48 Mark

Answer the following questions:-

1- Compare between

a)Fleshy and dry fruits

b- Racemose –Cymose (Inflorescences).

2-Identify the following :

a) Fruits .

b) Phyllotaxy

c) Flower

3-Write the scientific expression of the following definitions:

a) The staminate whorl of the flower.

b) The metamorphosed shoot system bearing the floral organs at special nodes.

c) Cohesion of the anthers only, but filaments are free.

d) The male gametophyte in the flowering plants.

e) The mature pollinated and fertilized ovary or gynoecium of the flower.

4- Write on :

a- Fertilization.

b- Aggregate fruits

c- false fleshy fruits

نموذج إجابة مادة تصنيف زهرى 232 ن
للمستوي الرابع شعبه نبات وكيمياء
تاريخ الامتحان : 2019/5/ 26
أستاذ المادة : د/ أحمد عبد الرازق
كلية العلوم – جامعة بنها

a) **1-Compare between:-**

Fleshy and dry fruits.

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

Dry fruits consists of one or more than carple and note deferntiated into layers

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-Identify the following :

a) **Fruits** .

The fruit is defind as the mature, pollinated and fertilized pistil or gynoecium of the flower..

b) **Phyllotaxy**

mean the arrangement of the floral leaves on the floral axis(receptacle)

c flower is metamorphosed shoot.

1- **Write the scientific expression of the following definitions:**

a) The staminate whorl of the flower.

(Gynoecium)

b) The metamorphosed shoot system bearing the floral organs at special nodes.

(flower)

c) Cohesion of the anthers only, but filaments are free .

(synantherous)

d) The male gametophyte in the flowering plants.

(Pollen grain)

e) The mature pollinated and fertilized ovary or gynoecium of the flower.

(fruit)

4- **Write on :**

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a- Fertilization.

Fertilization mean the union of pollen grain with the egg and formation of fruits .

b- Aggregate fruits

one flower with apocarpus ovary formed the fruits

c- false fleshy fruits

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

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.