



## Taxonomy examination (232 n) (48) mark

Answer the following questions :

(12) mark

1- Compare between :-

- a) Fleshy and false fleshy fruits .
- b) Androecium and Gynoecium in families (liliaceae – papilionoideae - Malvaceae)

2- Identify the following :-

(12) mark

- a) Fruits .
- b) Phyllotaxy

3- Write the scientific expression of the following definitions:

(10) mark

- 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- Choose the correct answer:

(14) mark

i- Any of the following systems is considered among the artificial ones .....

- a- System of Bentham & Hooker.
- b- System of Linnaeus.
- c- System of Engler.
- d- System of Bessey.

ii- When staminate and pistillate flowers are produced on different individual plants, the plant is described as .....

- a- polygamo-dioecious plant.
- b- polygamo-monoecious plant.
- c- monoecious plant.
- d- dioecious plant.

iii- Any of the following characterizing the monocotyledonous plants?

- a- Pentacyclic flowers.
- b- Tricyclic flowers.
- c- Hexacyclic flowers.
- d- Tetracyclic flowers.

iv- If calyx and corolla are present in the flower, it is called .....

- a- dichlamydeous.
- b- monochlamydeous.
- c- trichlamydeous.
- d- achlamydeous.

v- The essential floral organs are ...

- a- calyx and epicalyx.
- b- androecium and gynoecium.
- c- calyx and corolla .
- d- all the above.

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Signature ( )

## نموذج إجابة مادة التصنيف الزهري (232) ن

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### 1- Compare between :-

a) Fleshy and false fleshy.

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

b) Androecium and Gynoecium in families (liliaceae – papilionioideae - Malvaceae)

Androecium in family liliaceae Stamen 6. In two whorls, some times attached to the perianth. Gynoecium Carpls 3, syncarpous, ovary superior, trilocular with numerous ovules on axile placenta.

but in family papilionioideae Androecium Stamens 10 diadelphous. But in Gynoecium carpls one , ovary unilocular with several ovules on marginal placentation .

### 2- Identify the following :-

a) Fruits .

The fruit is defined 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)

### 3- 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- Choose the correct answer:**

- i- Any of the following systems is considered among the artificial ones .....**
  - b- System of Linnaeus.
- ii- When staminate and pistillate flowers are produced on different individual plants, the plant is described as .....**
  - d- dioecious plant.
- iii- Any of the following characterizing the monocotyledonous plants?**
  - b- Tricyclic flowers.
- iv- If calyx and corolla are present in the flower, it is called .....**
  - a- dichlamydeous.
- v- The essential floral organs are ...**
  - b- androecium and gynoecium.