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KERALA AGRICULTURAL UNIVERSITY
B.Sc. (Hons.) Agriculture – 2008 Admission - 1st Semester
Final Examination – March/April 2009

Title : Hort 1101

Max. marks: 80

Course: Fundamentals of Horticulture (1+0)

Time : 3 hours

I. Choose the best answers:

(20 x 0.5=10)

1. Which of the following crop is produced maximum in the world?
 - a. Mango
 - b. Tomato
 - c. Potato
 - d. Grapes
2. Which of the following fruit contains the highest amount of Ascorbic acid?
 - a. Aonla
 - b. Mango
 - c. Apple
 - d. Orange
3. Central Institute of Subtropical Horticulture is located at
 - a. Lucknow
 - b. Udham Singh Nagar
 - c. Jorhat
 - d. Bangalore
4. The uniform flowering in pineapple can be induced by application of
 - a. 100 ppm MH
 - b. 50ppm MH +2% urea
 - c. 25ppm Ethephon
 - d. 25ppm Ethephon +2% urea
5. Which of the following fruits botanically called as Hesperidium
 - a. Jackfruit
 - b. Orange
 - c. Litchi
 - d. Apple
6. Which of the following is a stem vegetable
 - a. Carrot
 - b. Sweet potato
 - c. Knol Khol
 - d. Radish
7. Leaf cutting is used as propagation material in
 - a. Chrysanthemum
 - b. Jasmine
 - c. Rex begonia
 - d. Coleus
8. To increase the number of female flowers in cucurbits, which of the following is used?
 - a. Ethrel
 - b. Kinetin
 - c. NAA
 - d. GA3

9. Which one of the following growth regulators is used to increase latex flow in rubber

- a. GA₃ b. Ethrel
c. IAA d. BA

10. Bending method is practiced in which one of the following fruit crops.

- a. Guava b. Papaya
c. Pineapple d. Sapota

11. The edible part of pomegranate is

- a. Thalamus b. Mesocarp
c. Endosperm d. Aril

12. Disease free plants in micro propagation can be obtained through

- a. Anther culture b. Pollen culture
c. Meristem culture d. Embryo culture

Match the following:

- | | | |
|-----------------------------|---|----------------------------------|
| 13. Breaking dormancy | - | CCC |
| 14. Blossom thinning | - | 2,4 dichlorophenoxy acetic acid. |
| 15. Parthenocarpy | - | Gibberellic acid |
| 16. Fruit ripening | - | Naphthalene acetic acid |
| 17. Hard wood cuttings | - | Geranium |
| 18. Semi hard wood cuttings | - | Grapes |
| 19. Softwood cuttings | - | Crotons |
| 20. Herbaceous cuttings | - | Jasmine |

II. Write answers in a word or sentence/ define

(10 x 1=10)

1. Define berry
2. Biennial crops
3. Chemical dormancy
4. Corm
5. Day neutral plants
6. Epigeous germination
7. Species

8. Pomology
9. Give examples of herbaceous perennial fruit crops.
10. Differentiate spices and condiments.

III. Write short notes on ANY TEN:

(10 x 2=20)

1. Define horticulture
2. Soil less culture
3. Differentiate training and pruning
4. Differentiate plant regulator and plant hormone
5. Define plant propagation
6. Define clone
7. Differentiate root stock and scion
8. Explain shield budding
9. Hardening
10. Phases of growth
11. Differentiate intercropping and mixed cropping
12. Methods of application of GR's.

IV. Write short notes on ANY FOUR:

(4 x 5=20)

1. Agro climatic zones for horticultural crops
2. HDP system advantages and characteristics
3. Differentiate open central system and central leader system of training
4. Different kinds of flower bearing shoots
5. Seed dormancy and their types.
6. Reasons and symptoms of graft incompatibility.

V. Write essays on ANY TWO:

(2 x 10=20)

1. Planning and layout of an orchard
2. Explain the pruning techniques
3. Explain the different methods of grafting for production of new plants and rejuvenation of orchards.