

B.Sc.(Ag.) Honours Semester– I Examination, 2014

**Course No. : HOR –111 (Production Technology of
Fruit Crops)**

(New Syllabus)

Signature of Centre Superintendent

Roll No.: (in figure) _____	(in words) _____
Student Index No. _____	Regn. No. _____ of _____

Time : Two hours

Full marks : 40

Questions are of value as indicated in the margin

Part-I

(Objective and Short Answer Type)

(Use only ball point pen)

Time : 20 minutes

Full marks : 10

- Note :** 1. Answer in question paper itself.
2. Striking, rewriting and overwriting are not allowed in the objective type questions.

1. Write True (T) or False (F) in respect of the following statements: (any seven) $0.5 \times 7 = 3.5$

- a) Black tip of Mango fruit caused due to smoke from the brick kiln. ☐
- b) Aonla is propagated by patch budding. ☐
- c) Banana may be grown successfully below 10^0 C temperature. ☐
- d) Ber orchard needs frequent irrigation during May-June. ☐
- e) Bower system of training is the costliest but commonly followed in India. ☐
- f) Guava flowers only once in North India. ☐
- g) Papain is extracted from fully ripe fruits. ☐
- h) *Madhuca latifolia* is commonly used as a rootstock of Sapota. ☐

2. Fill up the blanks with most appropriate words (any seven):

$0.5 \times 7 = 3.5$

- a) Best propagation material in Pineapple is _____.
- b) At least _____% pollinizers are recommended in Apple orchard.
- c) Edible portion of Litchi is _____.
- d) Jackfruit belongs to the family _____.
- e) The type of fruit in Pomegranate is _____, which is a modified form of berry.
- f) Fruit cracking in Litchi can be reduced by the spray of _____.
- g) Guava is generally trained to _____ system.
- h) Kinnow mandarin is a hybrid between _____ and _____.

3. Tick (✓) the correct alternatives (any six):

$0.5 \times 6 = 3$

- a) 'Ganesh' is a variety of (a) Aonla, (b) Grape, (c) Pomegranate, (d) Custardapple.
- b) 'Hen and Chicken' disease is observed in (a) Apple, (b) Grapes, (c) Banana, (d) Citrus.
- c) Which one of the fruits is not a monocotyledonous (a) Banana, (b) Pineapple, (c) Papaya, (d) Date.
- d) 'Bahar' treatment is a common practice in North India for crop regulation in (a) Jackfruit, (b) Ber, (c) Guava, (d) Papaya.
- e) Modified stem of Banana is called (a) sward sucker, (b) rhizome, (c) water sucker, (d) corm.

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Part–II
(Descriptive Type)

Time : 100 Minutes

Full marks : 30

Questions are of value as indicated in the margin.

Answer *any three* questions from the following.

4. Write short notes (*any four*): 2.5×4=10
 - a) High density orchard
 - b) Micro-propagation
 - c) Biennial bearing of mango
 - d) Graft incompatibility
 - e) Layout of orchard.
 - f) Fruit cracking in litchi

 5. Discuss in brief on cultivation method of Mango on the following aspects (a) variety, (b) propagation, (c) Nutritional management, (d) disorders. 2.5×4=10

 6. Write briefly on cultivation practices of ber under following heads (a) variety (b) planting and irrigation, (c) fertilizer management, (d) pruning, and (e) pest and disease management. 2×5=10

 7. Describe production technology of pomegranate with reference to (a) variety, (b) propagation and planting, (c) crop regulation, (d) maturity and harvesting. 2.5×4=10

 8. Discuss briefly on the following (*any four*): 2.5×4=10
 - a) Training of fruit crops
 - b) Plant growth regulator and fruit production
 - c) Apple rootstock
 - d) Guava wilt
 - e) Quality improvement in grapes
 - f) Classification of banana
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