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PART-B Contd... from page 3

Q V. Answer any five (5) of the following questions 5×2 mark = 10

1. Differentiate between apomixis and amphimixis.
2. Define polyembryony. What is the horticultural significance of polyembryony.
3. Differentiate between scarification and stratification.
4. Write down the advantages & disadvantages of sexual and vegetative method of propagation.
5. Define micro-propagation. What are the different stages of micro propagation.
6. How does the union of rootstock and scion take place?
7. Uses of growth regulators in plant propagation.

Q VI. Answer any five (5) of the following questions 5×3 mark = 15

1. What is cutting? Briefly write about the reasons for failure of some species to root formation in cuttings.
2. What is grafting? Write two important types of grafting along with suitable diagram.
3. What is green house? Write briefly about different types of green houses based on its structures.
4. Discuss briefly about mist chamber and hot bed along with their utility in plant propagation.
5. What is graft incompatibility? What are the types and external symptoms of Graft incompatibility?
6. Explain nursery registration act. What is the process of nursery registration?
7. Discuss in detail on physiological and anatomical basis of rooting of cutting.

END OF PART - A& B QUESTION PAPER 23 September, 2023



FSC-102 FE UHS22UG AY.2022-23



आजादी का
अमृत महोत्सव



Final examination:

FSC-102(1+1): Plant Propagation and Nursery Management

Date & time of Exam: 27.10.2023 (10:30 ~12:30)

Set A

*FSC
102*

Name of the Student ID No. UHS22UG.....

College of Horticulture, College Code.....

Instructions to the Students:

Total marks: 50 (Part- A : 20 marks and Part- B : 30 marks)

Part - A Question paper: Answer within 30 min.

All answers should be written only in OMR Sheet.

Write the Correct Part-A Question paper Set Code in OMR sheet.

Get the signature of the invigilator on your Part- A QP.

Please return the OMR sheet after 30 minutes of the examination to the invigilator.

Part- A

Q.I. Select the most correct answer A/B/C/D for the following questions. 20×0.5 mark = 10 Marks

- C 1. Corm is modified form of
a)Leaves b)Root c)Stem d)none
- B 2. Which of the following hormone is used commercially in rooting of cuttings?
a)NAA b)IBA c)IAA d)MH
- C 3. Which of the following is commonly used to overcome graft incompatibility?
a)Scion b)Stock c)Inter stock d)All of these
- A 4. The most ideal temperature to be maintained in bottom heat box for rooting in mango is:
a)32 °C b)52 °C c)70 °C d)None of these
- D 5. Tissue culture is based on the principle of:
a)Apomixis b)Polyembryony c)Parthenocarpy d)Totipotency
- B 6. Seed viability test is also called as:
a)Ragdoll test b)Tetrazolium test c)Eliza test d)Germination test
- C 7. Which of the following is plant growth retardant?
a)Auxin b)GA3 c)Abscisic Acid d)Zeatin
- D 8. The plant part used for tissue culture is known as
a)Stem cell b)Proplant c)Guard cell d)Explants
- C 9. Ginger is propagated by using propagating material:
a)Corm b)Bulb c)Rhizome d)Roots
- A 10. In Which type of germination, cotyledons come above ground?
a)Hypogeal b)Viviparous c)Epigeal d>All of these

cutting

30. High level of endogenous level of cytokinin will promote rooting in seed is the source for production of rootstocks.

29. The scion is the part of the stem that develops into a root system plants.

28. Most chambers are used for rooting of cuttings from easy to root

27. Rudimentary embryo is one of the causes of seed dormancy.

26. Tongue grafting is modified form of whip grafting.

25. Nucellar seedlings of citrus are prone to viral infection.

24. ABA promote germination in dormant seed exogenous dormancy.

23. Dormancy imposed by factors outside the embryo is known as

22. Seedling plants are true to type to the mother plants.

sheet 10 x 0.5 = 5 Marks

Q.III. Enter TRUE(T) / FALSE(F) for the following statements in OMR

a) Scarification b) Stratification c) Vernalization d) None of these

20. Which of the following is also known as moist chilling treatment?

19. Which of the following fruits are polyembryonic in nature?

a) Pear b) Mango c) Jamun d) Apple

18. Recurrent apomixis is observed in:

a) MHH b) JAA c) Rhizocycline d) DNA

17. Which of the following is rooting co-factor:

a) Wit b) Damping off c) Root d) Middle

16. The very serious disease of nursery is:

a) Pricking b) Transplanting c) Girlding d) None of these

15. The transferring of young seedlings into another bed, pan or tray is termed as:

a) Scarification b) Stratification c) Vernalization d) None of these

14. Which of the following is also known as moist chilling treatment?

a) Self-pruning b) Budding c) Air layering d) Grafting

13. Sphagnum moss is generally used in:

a) Lath house b) Gold frame c) Hot bed d) Net house

12. Which of the following structures is primarily used for hardening of rooted cutting or young seedlings before planting?

c) Coat is known as a) Scarification b) Outdoor stratification

11. A physical treatment that weakens or softens the seed

a) Scarification b) Stratification c) Vernalization d) None of these

10 x 0.5 mark = 05 Marks

Set A FSC-102(1+1): Plant Propagation and Nursery Management

Contd....

7. Enlist the different types of budding & grafting.
6. Uses of mist chamber and shade net house.
5. Commercial method of propagation of pineapple, Papaya, Mandarin and Aonla.
4. How air layering is different than ground layering.
3. Define seed dormancy.
2. What are the important tools & implements used for nursery activities?
1. Define nursery.

Q.IV. Answer any five (5) of the following questions 5 x 1 mark = 05

1. Signature of invigilator on answer booklet is compulsory.
2. All answers to the questions IV, V and VI should be written on appropriate pages only.

Part - B

| Q.No | Column A | Column B |
|------|----------------------|----------|
| 31 | Apomixis | A |
| 32 | Polyembryony | B |
| 33 | Parthenogenesis | C |
| 34 | Parthenocarpy | D |
| 35 | Self-incompatibility | E |
| 36 | Gootie | F |
| 37 | Runniers | G |
| 38 | Suckers | H |
| 39 | Stooling | I |
| 40 | Veneer grafting | J |

10 x 0.5 mark = 05 Marks