Paper Code - 3032

B Sc Sem – I (Old Course)
July-Sep – 2021
ES-BOT-111 - PLANT TISSUE CULTURE

કુલ સમય :– ૩૦ મીનીટ કુલ પ્રશ્નો : ૩૫ વિદ્યાર્થીએ ટીક કરવાના પ્રશ્નો : ૨૫
નોંધ : વિદ્યાર્થીએ માત્ર ૨૫ પ્રશ્નો જ ટીક કરવાના રહેશે. જો વધારે ટીક કરેલ હશે તો પ્રથમ ૨૫ પ્રશ્નો જ ગણતરીમાં લેવામાં આવશે.

1. Who is the known as the father of tissue culture?
a) Bonner b.Laibach c.Haberlandt d.Gautheret

2. From the following which scientists had cultured tissue and cell?
a) Bonner b.Laibach c.Haberlandt d.Gautheret

3. Which part of the plant is used in plant tissue culture?
a) Apical bud b.Embryo c.Callus d.Suspension

4. Which of the following is the growth promoter?
a) Auxin b.Cytokinin c.Both d.None of these

5. Immature part can be removed through _____ method.
a) Organ culture b.Embryoculture c.Callus culture d.Suspension culture

6. _____ temperature is kept in the plant tissue culture room.
a) 25 ± 5°C b.24 ± 2°C c.25 ± 2°C d.24 ± 5°C

7. What is the full form of 'LAF'?
a) Laminar air flow b.Laminar air flow c.Laminar air filter d.Laminar air filter

8. How long power should be kept on to start LAF.
a) 10-15 minutes b.15-20 minutes c.20-30 minutes d.20-25 minutes

9. How much temperature and pressure is kept in autoclave.
a) 121.5°સેઅને 12 PSI b.121.5°સેઅને 15PSI
c.125.5°સેઅને 12 PSI d.125.5°સેઅને 15PSI

10. What is not destroy in autoclave?
a) plant b.fungi c.virus d.bacteria

11. Which growth regulator is needed for callus culture?
a) BAP b.IBA c.IAA d.NAA

12. Write the full form of BAP.
a) 6-Benzyl amanopurine b.6-Benzyl aminopurine
c. 6-Benzyl aminopurine d.None of the above

13. Which medium is used for plant tissue culture?
a) B5- Gamborg b.MS- Murashing and Skoog c.a and b Both d.None of these

14. In plant tissue culture the pH of media is kept _____.
a) 4.8-5 b.4.8-7 c.4.8-5.8 d.4.8-7.8

15. The pair of hormones required for a callus to differentiate are_____.
a) Ethylene & Auxin b.Auxin &Cytokinin
c.Auxin & Abscisic acid d.Cytokinin & Ethylene

16. Which of the following is the first transgenic crop?
a) Flax b.Tobacco c.Plastic d.Cotton

17. Growth of plant tissues in artificial media is called_____.
a) Gene study b.Cell study c.Plant tissue culture d.None of these above

18. How much temperature is kept in green house?

a) 20°C b.22°C c.25°C d.27°C

19. In green house how much relative humidity is kept as compared to temperature.

a) 75% b.70% c.68% d.100%

20. Micropropagation is divided into _____ stages?

a) 5 b.3 c.6 d.2

21. Which of the following buffer tablet are used in pH meter.

a) pH 4 &pH 8 b.pH 4 &pH 9.9 c.pH 4 &pH 8.6 d.pH 4 &pH 9.2

22. How many types of pH meter are their?

a) 5 b.4 c.6 d.2

23. _____ is used to sterilize microbiology laboratory.

a) LAF b.HEPA c.a and b Both d.none of the above

24. What is used in LAF for cleaning?

a) Alcohol b.Ethanol c.a and b Both d.none of the above

25. LAF can be used at.

a) Hospital and operation theatre b.Bone marrow c.Transplant d.all of the above

26. Who discovered pH?

a) Franklin b.Antoine c.John Dalton d.Sorensen

27. Efficiency of HEPA filter is____?

a) 88.87 b.99.97 c.97.97 d.90.97

28. Dust particles removed by HEPA filter is:

a) 0.05 µm. B.0.2 µm. C.0.03 µm. D.0.3 µm.

29. Which of the following plant hormone control fruit ripening?

a) Ethylene b.Auxin c.Gibbrellins d.Abscisis acid

30. Part of plant used for culturing is called:

a) Scion b.Explant c.Stock d.Callus

31. Growth hormone producing apical dominance is

a) Abscisis acid b.Gibbrellins c,Auxin d.Ethylene

32. How long time should a laminar flow hood run before using?

a) 5-10 minutes b.10-15 minutes c.15-20 minutes d.20-25 minutes

33. If medium having 5..5 PH then it is considered

a) Acidic b.Basic c.Neutral d.none of this

34. Which type medium required for tissue culture?

a) Solid b.Liquide c.Semi-solid d.none of this

35. Which of the following instruments is used to measure pH?

a) pH meter b.Universal Indagator c.pH strip d.all of the above