DF-3010
Second Year B. Sc. (Sem. III) Examination
March / April - 2016
Botany : Paper-301
(Plant Diversity of Lower & Higher Cryptogams)

Time : 2 Hours] [Total Marks : 50

Instrunctions:

(1) Fill up strictly the details of signs on your answer book.
Name of the Examination:
SECOND YEAR B. SC. (SEM. III)
Name of the Subject:
BOTANY : PAPER-301

(2) There are 50 questions each question carries one (1) mark and all are compulsory.

(3) Read the question carefully before selecting the correct option.

O.M.R. Sheet भरणारा अंगेली अवकल नुस्खांचे सादर करा आपल्या O.M.R. Sheet-नी पाहिला आपल्या निर्देशावर.
Important instructions to fillup O.M.R. Sheet are given on back side of the provided O.M.R. Sheet.
1. Which of following type of structure antherozoids of Anthoceros have?
   (A) Equal, large and biflagellate
   (B) Unequal, small and biflagellate
   (C) Unequal, large and biflagellate
   (D) Equal, small and biflagellate

2. Fungi lacks ____________.
   (A) Cell wall
   (B) True nucleus
   (C) Option Chloroplast and True nucleus
   (D) Chloroplast

3. Which following type of shape of transverse section of Rhizome of Polytrichum?
   (A) Triangular shape
   (B) Round shape
   (C) Square shape
   (D) Irregular shape
4. From the given below which is the characteristic of Plant Kingdom?
   (A) Living cell organelles present in cytoplasm
   (B) Do migration
   (C) Option Non-living cell organelles present in cytoplasm and Living cell organelles present in cytoplasm
   (D) Non-living cell organelles present in cytoplasm

5. Which following types shape of cell of algae Oscillatoria?
   (A) Length is more than breath
   (B) Length and breath are equal
   (C) Irregular shape
   (D) Length is less than breath

6. In which form of reserve food materials is found in Ectocarpus?
   (A) Manitol
   (B) Laminarin and Manitol
   (C) Laminarin, Manitol and Oil particles
   (D) Laminarin
7. From the given below the septa absent in mycelium of which fungi?
   (A) Peziza
   (B) Puccinia
   (C) None of these
   (D) Pythium

8. In which of following plant trichogine is present?
   (A) Batrachospermum
   (B) Puccinia
   (C) Peziza
   (D) Ectocarpus

9. When an operculum is open in Polytrichum?
   (A) When environment dry
   (B) At maturity of Capsule
   (C) All of these
   (D) When Peristome dried

10. Which of the following plant is seen as fossil species?
    (A) Marsilea
    (B) Polytrichum
    (C) Lichen
    (D) Equisetum
11 नीचेनामांकी कुण बीजा भजा साचे असेवत नयी ?
(A) त्रिमंगी
(B) त्रिमंगी
(C) अनावृत भोजनवरी वनस्पति
(D) बीज
Which is odd one from following?
(A) Bryophyte
(B) Pteridophyte
(C) Gymnosperms
(D) Algae

12 लाखमां केपित्रियाल ____________-नी लेखी कोण छे.
(A) सेल्युलोज
(B) चॉक्लीन
(C) अल्ट्योडिजन
(D) शार्टीन
The cell wall in algae is made up of __________.
(A) Cellulose
(B) Gelatin
(C) Glycogen
(D) Chitin

13 नीचेनां पाइक कहा वनस्पतिनां ज्यानवर्कां अनेकता जन्युके पी घाती जीवा मृदं छ?
(A) ऑसिलेटोरिया
(B) बाट्राधस्पर्मम
(C) पॉलिट्रिचम
(D) अंगोसिरोस
From which of following life cycle the motile reproductive cells are absent?
(A) Oscillatoria
(B) Batrachospernum
(C) Polytrichum
(D) Anthoceros

14 नीचेनां पाइक कहा वनस्पति प्रोक्रियोटिक क्रेप दरवाये छ?
(A) युलोथ्रिकस
(B) पेजीजा
(C) आर्चिजन
(D) नोस्टोक
Which of the following has prokaryotic cells?
(A) Ulothrix
(B) Peziza
(C) Lichen
(D) Nostoc
15 Members of class chlorophyceae are commonly known as which following name?
(A) Brown algae
(B) Green algae
(C) Red algae
(D) Blue-green algae

16 With reference to Nostoc which one of the following statements is correct?
(A) An individual mucilaginous sheath is present around each trichome.
(B) Both of these
(C) None of these
(D) The trichomes are generally not surrounded by mucilaginous sheath.

17 In Peziza the asexual reproductive organ behave as _______.
(A) Sporangium
(B) Conidiosporangium
(C) Both Conidia and Conidiosporangium
(D) Conidia
18. In which of the following types, the structure of cystocarp developed after fertilization?
(A) Ectocarpus
(B) Batrachospermum
(C) None of these
(D) Ulothrix

19. Which cells of archegonia disintegrating before fertilization in Anthoceros?
(A) Neck canal cells
(B) Neck canal cells and ventral canal cells
(C) None of these
(D) Ventral canal cells

20. Which following type of mode of nutrition shown in Pythium?
(A) Parasitic
(B) Symbiotic
(C) Saprophytic
(D) Autotrophic
21 In which generation in bryophytic plant the spores represent the first cell?
(A) Sporophytic generation
(B) Sexual generation
(C) None of these
(D) Gametophytic generation

22 What is the name of spore producing organ in Equisetum?
(A) Cone
(B) Sori
(C) All of these
(D) Sporocarp

23 In which plant sporophytic phase short and completely depended on gametophyte?
(A) Nephrolepis
(B) Anthoceros
(C) None of these
(D) Marsilea
24  What character is used as the main character for the classification of the fungi?
   (A) Asexual reproductive stage
   (B) Sexual reproductive stage
   (C) Structure of vegetative mycelium and Sexual reproductive stage
   (D) Structure of vegetative mycelium

25  What is called the fruiting body of Lichen?
   (A) Cleistothecium
   (B) Apothecium
   (C) Option Perithecium and Apothecium
   (D) Perithecium

26  From which of the following species the Orsin is obtained?
   (A) Rosela
   (B) Caldonia
   (C) Cetraria
   (D) Archilino
27. Following what kind of leaf is found in Marsellia?
(A) Compound leaf
(B) Megaphyllus
(C) All types
(D) Microphyllous

28. In which species of Oscillatoria we can see the structure of calyptra on apical side?
(A) O. Formosa
(B) O. tenuis
(C) None of these
(D) O. angusta

29. Graphis is classify in which type of lichen?
(A) Petaloid
(B) Fruticose
(C) Foliose
(D) Crustose

30. Antheridia and archegonia grown on different branches which is known as _________.
(A) Gynoandrosorous
(B) Antheridioandrosporous and Gynoandrosorous
(C) None of these
(D) Idioandrosorous
31. Which is the function of Separation disc?
   (A) Cell division
   (B) To make transparent
   (C) To make mucilaginous
   (D) Reproduction

32. Which sentence is wrong in respect of Fungi?
   (A) All fungi are parasitic
   (B) Fungi are of universal occurrence
   (C) None of these
   (D) Fungi are achlorophyllous

33. Which of the following Algae is epiphytic?
   (A) Ulothrix flacca
   (B) Nostoc punctiforme
   (C) Batrachospermum vagum
   (D) Ectocarpus coniferus
34. Both nuclei of asci mother cell are attached with ______ in Peziza.
   (A) Somatogamy
   (B) Option Karyogamy and Somatogamy
   (C) None of these
   (D) Karyogamy

35. On which of the following surface of Anthoceros, slime pore is located?
   (A) Dorsal surface
   (B) Dorsal – Ventral surface
   (C) Lateral surface
   (D) Ventral surface

36. Which of the following type of structure antherozoids of Equisetum have?
   (A) Unequal, small and multiflagellate
   (B) Equal, small and biflagellate
   (C) Unequal, small and biflagellate
   (D) Equal, small and multiflagellate
37. Marsilea is an aquatic plant. Which part do you observe in it?
   (A) Stalk
   (B) Petiole
   (C) Sporocarp
   (D) Rhizome

   Vegetative reproduction in Marsilea by means of which following organ?
   (A) Tuber
   (B) Stolon
   (C) Sporocarp
   (D) Rhizome

38. Which of the following algae shows vegetative, asexual and sexual reproduction?
   (A) Nostoc
   (B) Oedogonium
   (C) Ectocarpus
   (D) Oscillatoria

39. Which type of spores are responsible for asexual reproduction in Ectocarpus?
   (A) Biflagellate zoospore
   (B) Aflagellate zoospore
   (C) Biflagellate aplanospore
   (D) Multiflagellate zoospore

40. In which of the following class conceptacles and receptacles are found?
   (A) Rhodophyceae
   (B) Pheophyceae
   (C) Chlorophyceae
   (D) Cyanophyceae

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41. Which of the following types of rhizoids arise in Anthoceros?
(A) Septate and smooth walled
(B) Aseptate and tuberculate
(C) Septate and tuberculate
(D) Aseptate and smooth walled

42. Which of the following is odd one?
(A) Egg cell
(B) Spore
(C) Spore mother cell
(D) Antheroxid

43. What is called collar like structure in sporophyte of Anthoceros?
(A) Operculum
(B) Apophysis
(C) Pseudo elaters
(D) Involucre

44. Which kind of lichen is Hematoma?
(A) Crustose
(B) Fruticose
(C) Petalloid
(D) Foliose
45. What is the alga, Oedogonium, which belongs to which of the following species?

(A) O. nodulosum  
(B) O. concatenatum  
(C) O. fragile  
(D) O. aquaticum

Which of the following dioecious species of Oedogonium?

(A) O. nodulosum  
(B) O. concatenatum  
(C) O. fragile  
(D) O. aquaticum

46. Which of the following phage is subsidiary in the life cycle of Bryophyte?

(A) Gemmae  
(B) Sporocarp  
(C) None of these  
(D) Gametophyte

47. When can we see meiosis in Pterodiphyte?

(A) At the time of formation of sexual reproductive organ  
(B) Option At the time of formation of gametes and At the time of formation of sexual reproductive organ  
(C) None of these  
(D) At the time of formation of gamets
48. In which of following species the fertile branch gets green after dehiscence of cone?
(A) Equisetum palustre
(B) Equisetum telmateia
(C) Equisetum scirpoide
(D) Equisetum arvense

49. Which of following type sexual reproduction in Pucciniagraminis known as?
(A) Karyogamy
(B) Isogamy
(C) Oogamy
(D) Somatogamy

50. In which of following type of Lichen have Rhizine?
(A) Heteromerous
(B) Option Homомерous and Heteromerous
(C) None of these
(D) Homомерous