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

सूचना / Instructions :

1. Fill up strictly the details of signs on your answer book.
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 भरवा अंगेनी अंगत्यनी सूचनाओ आपेक
O.M.R. Sheet-ली पाइल आपेक भे.

Important instructions to fill up O.M.R. Sheet are given on back side of the provided O.M.R. Sheet.
1 Which of following type of rhizoids arise in Anthoceros ?
(A) Septate and tuberculate
(B) Aseptate and smooth walled
(C) Septate and smooth walled
(D) Aseptate and tuberculate

2 Which of following is odd one ?
(A) Spore mothercell
(B) Antherozoid
(C) Egg cell
(D) Spore

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

4 Which kind of lichen is Hematoma ?
(A) Petalloid
(B) Foliaceous
(C) Crustose
(D) Fruticose
5. Which of the following species of Oedogonium is dioecious?
(A) *O. fragile*
(B) *O. aquaticum*
(C) *O. nodulosum*
(D) *O. concatenatum*

6. Which of the following phages is subsidiary in the life cycle of Bryophyte?
(A) None of these
(B) Gametophyte
(C) Gemmae
(D) Sporocarp

7. When can we see meiosis in Pteridophyte?
(A) None of these
(B) At the time of formation of gamets
(C) At the time of formation of sexual reproductive organ
(D) Both at the time of formation of gamets and at the time of formation of sexual reproductive organ
8. In which of following species the fertile branch gets green after dehiscence of cone?
(A) *Equisetum scirpoides*  
(B) *Equisetum arvense*  
(C) *Equisetum palustre*  
(D) *Equisetum telmateia*

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

10. In which of following type of Lichen have Rhizine?
(A) None of these  
(B) Homомерous  
(C) Heteromerous  
(D) Option Homомерous and Heteromerous
11 Which of the following type of structures antherozoids of Anthoceros have?

(A) Unequal, large and biflagellate
(B) Equal, small and biflagellate
(C) Equal, large and biflagellate
(D) Unequal, small and biflagellate

12 Which of the following is not a characteristic of fungi?

(A) Chloroplast and true nucleus
(B) Chloroplast
(C) Cell wall
(D) True nucleus

13 Which of the following is the shape of the transverse section of Rhizome of Polytrichum?

(A) Square shape
(B) Irregular shape
(C) Triangular shape
(D) Round shape
14. From the given below which is the characteristic of Plant Kingdom?
(A) Option Non-living cell organelles present in cytoplasm and Living cell organelles present in cytoplasm
(B) Non-living cell organelles present in cytoplasm
(C) Living cell organelles present in cytoplasm
(D) Do migration

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

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

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

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

20. Which of the following plant is seen as fossil species?
   (A) Lichen  
   (B) Equisetum  
   (C) Marsilea  
   (D) Polytrichum
21 नीचेनामांधी क्रुण बीज भाग साधे अंधादेसांतुन नयी ?
(A) अनापूर्ण भौज्याची वनस्पति
(B) बीज
(C) दिशाधी
(D) बिंबाळी
Which is odd one from following ?
(A) Gymnosperms
(B) Algae
(C) Bryophyte
(D) Pteridophyte

22 बीजमान केभिटवाल __________ नी अनेकी कोण के.
(A) अकालीजन
(B) क्रिस्टलजेन
(C) सेल्युलोज
(D) जळेशीन
The cell wall in algae is made up of __________.
(A) Glycogen
(B) Chitin
(C) Cellulose
(D) Gelatin

23 नीचेनापैकी करी वनस्पतिनं ज्युन्नाहकांमध्ये अधिकता ज्युक्षेंजी खाजी तोवा मृणे हे?
(A) Polytrichum
(B) Anthoceros
(C) Oscillatoria
(D) Batrachospermum
From which of following life cycle the motile reproductive cells are absent ?
(A) Polytrichum
(B) Anthoceros
(C) Oscillatoria
(D) Batrachospermum

24 नीचेनापैकी करी वनस्पती प्रोक्रियोटिक कोण दरवाे हे?
(A) लिचेन
(B) नोस्टोक
(C) सुल्फोस्ट्रेक्स
(D) फेंडीजेन
Which of the following has prokaryotic cells?
(A) Lichen
(B) Nostoc
(C) Ulothrix
(D) Peziza
25. Members of class chlorophyceae are commonly known as which following name?
(A) Red algae
(B) Blue-green algae
(C) Brown algae
(D) Green algae

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

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

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

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

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

33 In which plant sporophytic phase short and completely depended on gametophyte?
(A) None of these
(B) Marsilea
(C) Nephrolepis
(D) Anthoceros
34. नीचेनां फैली कथा मुख्य वजीरनांने आधारे कृत्यानुसार वर्गीकरण करावासाय आवश्यक काय आहे?
   (A) विकल्प वाणिज्यिक कवक्षणांनी स्थनांना अने शिंगी प्रजनन अवस्था
   (B) वाणिज्यिक कवक्षणांनी स्थनां
   (C) अल्पविंची प्रजनन अवस्था
   (D) शिंगी प्रजनन अवस्था

Which character is used as main character for the classification of the fungi?
   (A) Option Structure of vegetative mycelium and Sexual reproductive stage
   (B) Structure of vegetative mycelium
   (C) Asexual reproductive stage
   (D) Sexual reproductive stage

35. ऐरॅडॅक्षना हेकरे हेकरे युं फ्लोरव्हे आहे?
   (A) विकल्प एपिफेफिसीम अने एपिफेफिसीम
   (B) एपिफेफिसीम
   (C) एक्सोतेफिसीम
   (D) एपिफेफिसीम

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

36. नीचेनां फैली ऐरॅडॅक्षनांची कसे जातिमानी ओर्सीन प्रामाण्य आहे?
   (A) एक्सोटेफिसीम
   (B) एपिफेफिसीम
   (C) रोसेला
   (D) कलोरोनिसीम

From which of the following species the Orsin is obtained?
   (A) Cetraria
   (B) Archilino
   (C) Rosela
   (D) Caladonia
37 भारतीयाच्या नीचे गेल्या क्षेत्रातील पर्यंत जोवा घेणे कसे ?
(A) तमाम प्रकारांतर
(B) अधुरीभाऊपस्त्री
(C) सुयुक्तपावळी
(D) अपूर्णभाऊपस्त्री
Following what kind of leaf is found in Marsellia ?
(A) All types
(B) Microphyllous
(C) Compound leaf
(D) Megaphyllus

38 अंशिकोरोपणीच्या किंवा अशीमाने स्वरूपीताने रचना कोल्हा म्हणून वापर केला ?
(A) असेच नाही
(B) O. angusta
(C) O. Formosa
(D) O. tenuis
In which species of Oscillatoria we can see the structure of calyptra on apical side ?
(A) None of these
(B) O. angusta
(C) O. formosa
(D) O. tenuis

39 आहील क्षेत्राच्या प्राचीनी लाकडीने वर्गीकृत काय घेते ?
(A) पंखाचे
(B) हूंडाचे
(C) दाळचे
(D) वुम्बाचे
Graphis is classify in which type of lichen ?
(A) Foliose
(B) Crustose
(C) Petaloid
(D) Fruticose

40 पृथ्वीभूमी अनेक अंधाने अंधकार अंधकार शास्त्रात उपर उपर दिसलेले तेंते________ केलेले.
(A) असेच नाही
(B) पृथ्वीभूमीला जलक्रामक
(C) अष्टादशशतार्क
(D) नष्टकर्षण पृथ्वीभूमीला जलक्रामक अनेक अशेषक्रामक
Antheridia and archegonia grown on different branches which is known as _______.
(A) None of these
(B) Idioandrosporous
(C) Gynoandrosporous
(D) Option Idioandrosporous and Gynoandrosporous
41  Which is following function of Separation disc?
(A) To make Mucilaginous
(B) Reproduction
(C) Cell division
(D) To make transparent

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

43  Which of the following Algae is epiphytic?
(A) Batrachospermum vagum
(B) Ectocarpus conferus
(C) Ulothrix flacca
(D) Nostoc punctiforme
44. The egg cells in the mature ovules of the plant are attached to the _______ of the flower.
   (A) anther
   (B) ovule
   (C) style
   (D) carpel

Both nuclei of ascus mother cell are attached with _______ in Peziza.
   (A) None of these
   (B) Karyogamy
   (C) Somatogamy
   (D) Option Karyogamy and Somatogamy

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

46. The sporophytes of the plant ________ have ________ spores.
   (A) unequal, small and biflagellate
   (B) equal, small and biflagellate
   (C) unequal, small and biflagellate
   (D) equal, small and biflagellate
Vegetative reproduction in Marsilea by means of which following organ?
(A) Sporocarp
(B) Rhizome
(C) Tuber
(D) Stolon

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

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

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