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

曙光 / Instructions :

(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
Subject Code No. : 3 0 1 0 Section No. (1, 2,.....) Nil
Seat No. :

(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 अनेकी अक्षरी सूचनाओ आयेद अनेकी अक्षरी सूचनाओ आयेद
O.M.R. Sheet-ी पाटवे अर्ये भे.
Important instructions to fillup O.M.R. Sheet are given on back side of the provided O.M.R. Sheet.

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1. Which is the following function of Separation disc?
   (A) To make transparent
   (B) To make Mucilaginous
   (C) Reproduction
   (D) Cell division

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

3. Which of the following Algae is epiphytic?
   (A) Nostoc punctiforme
   (B) Batrachospermum vagum
   (C) Ectocarpus confluens
   (D) Ulothrix flaca
4. Both nucleus of ascus mother cell are attached with ______ in Peziza.
   (A) Option Karyogamy and Somatogamy
   (B) None of these
   (C) Karyogamy
   (D) Somatogamy

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

6. Which of following type of structure antherozoids of Equisetum have?
   (A) Equal, small and biflagellate
   (B) Unequal, small and biflagellate
   (C) Equal, small and multilflagellate
   (D) Unequal, small and multilflagellate
7. Vegetative reproduction in Marsilea by means of which following organ?
(A) Stolon
(B) Sporocarp
(C) Rhizome
(D) Tuber

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

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

10. In which of the following class conceptacles and receptacles are found?
(A) Pheophyceae
(B) Chlorophyceae
(C) Cyanophyceae
(D) Rhodophyceae
11 Which of the following type of rhizoids arise in Anthoceros?
(A) Aseptate and tuberculate
(B) Septate and tuberculate
(C) Aseptate and smooth walled
(D) Septate and smooth walled

12 Which of the following is odd one?
(A) Spore
(B) Spore mother cell
(C) Antheroxoid
(D) Egg cell

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

14 Which kind of lichen is Hematoma?
(A) Fruticose
(B) Petaloid
(C) Foliose
(D) Crustose
15. Nigella pachira ઉ્દેશ્યોની સમયે કિને જાતી શું છે ?
(A)  *O. concatenatum*  
(B)  *O. fragile*  
(C)  *O. aquaticum*  
(D)  *O. nodulosum*  
Which of following the dioecious species of *Oedogonium* ?
(A)  *O. concatenatum*  
(B)  *O. fragile*  
(C)  *O. aquaticum*  
(D)  *O. nodulosum*  

16. વીજાલી વન્સનકલિયોના જીવજીબો નીચેની પાદકા કિને વીજા અંશા છે ?
(A)  સી જી જીરી  
(B)  આદેશ જીરી  
(C)  જીરી જીરી  
(D)  સી જી  
Which of the following phage is subsidiary in the life cycle of *Bryophyte* ?
(A)  Sporocarp  
(B)  None of these  
(C)  Gametophyte  
(D)  Gemmae  

17. વીજાલી વન્સનકલિયોના અંદ્રાનંદક કયાને વાણ છે ?
(A)  વીજાલી જીરી નિમિષા સમયે અને વીજાલી પ્રજાનંખંદજ જીરી નિમિષા સમયે  
(B)  આદેશ જીરી  
(C)  જીરી પ્રજાનંખંદજ નિમિષા સમયે  
(D)  વીજાલી પ્રજાનંખંદજ જીરી નિમિષા સમયે  
When we can see meiosis in *Pterodophyte* ?
(A)  Option At the time of formation of gamets and At the time of formation of sexual reproductive organ  
(B)  None of these  
(C)  At the time of formation of gamets  
(D)  At the time of formation of sexual reproductive organ  

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18. Which of the following species the fertile branch gets green after dehiscence of cone?
(A) Equisetum telmateia
(B) Equisetum scirpoides
(C) Equisetum arvense
(D) Equisetum palustre

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

20. In which of the following type of Lichen have Rhizine?
(A) Option Homomerous and Heteromerous
(B) None of these
(C) Homomerous
(D) Heteromerous
21 Which of the following type of structure antherozoids of Anthoceros have?
(A) Unequal, small and biflagellate
(B) Unequal, large and biflagellate
(C) Equal, small and biflagellate
(D) Equal, large and biflagellate

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

23 Which following type of shape of transverse section of Rhizome of Polytrichum?
(A) Round shape
(B) Square shape
(C) Irregular shape
(D) Triangular shape
24 Which of the following statements is correct for __A__? ____
(A) __A_ statement
(B) __B_ statement
(C) __C_ statement
(D) __D_ statement

Which of the following is the characteristic of Plant Kingdom?
(A) Do migration
(B) Non-living cell organelles present in cytoplasm and living cell organelles present in cytoplasm
(C) Non-living cell organelles present in cytoplasm
(D) Living cell organelles present in cytoplasm

25 Which of the following __A__? ____
(A) __A_ statement
(B) __B_ statement
(C) __C_ statement
(D) __D_ statement

Which of the following types of algae Oscillatoria?
(A) Length and breadth are equal
(B) Irregular shape
(C) Length is less than breadth
(D) Length is more than breadth

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

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

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

30. Which of the following plant is seen as fossil species?
   (A) Polytrichum
   (B) Lichen
   (C) Equisetum
   (D) Marsilea
31 नीचे नामांकित वनस्पति क्या फायदा साने अनुभवतरुं नयी ?
(A) जोगनी
(B) अनापूरा बीजधारी वनस्पति
(C) बीले
(D) दिवनानी
Which is odd one from following?
(A) Pteridophyte
(B) Gymnosperms
(C) Algae
(D) Bryophyte

32 दीढ़मा किसिमकाल ___________ नी अनेकी कोप हे.
(A) चोटीन
(B) धाराक्षिण
(C) झाड़ीन
(D) सेमुलोग
The cell wall in algae is made up of __________.
(A) Gelatin
(B) Glycogen
(C) Chitin
(D) Cellulose

33 नीचे नामांकित वनस्पतिमा ज्वाननमा अनुभवत जनुकीक्रिया घासी होना उमेद छे?
(A) शेष्रूपस्मृति
(B) पाक्षिकप्रमण
(C) अनमोलवरी-ranging
(D) अक्षालितवरी-ranging
From which of following life cycle the motile reproductive cells are absent?
(A) Batrachospermum
(B) Polytrichum
(C) Anthoceros
(D) Oscillatoria

34 नीचे नामांकित वनस्पति प्रोक्यूरिओटिक कोष पररव छे?
(A) बेजिओ
(B) नोसीक
(C) नोसीक
(D) युक्तिरिक
Which of the following has prokaryotic cells?
(A) Peziza
(B) Lichen
(C) Nostoc
(D) Ulothrix
35. Members of class chlorophyceae are commonly known as which following name?
(A) Green algae
(B) Red algae
(C) Blue-green algae
(D) Brown algae

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

37. In Peziza the asexual reproductive organ behave as _______.
(A) Conidiosporangium
(B) Both Conidia and Conidiosporangium
(C) Conidia
(D) Sporangium
In which of following types the structure of cystocarp developed after fertilization?

(A) Batrachospermum
(B) None of these
(C) Ulothrix
(D) Ectocarpus

Which cells of archegonia disintegrating before fertilization in Anthoceros?

(A) Neck canal cells and ventral canal cells
(B) None of these
(C) Ventral canal cells
(D) Neck canal cells

Which following type of mode of nutrition shown in Pythium?

(A) Symbiotic
(B) Saprophytic
(C) Autotrophic
(D) Parasitic
41 In which generation in bryophytic plant the spores represent the first cell?
(A) Sexual generation
(B) None of these
(C) Gametophytic generation
(D) Sporophytic generation

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

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

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

46 From which of following species the Orsin is obtained?
(A) Caladonia
(B) Cetraria
(C) Archilino
(D) Rosela
47 What kind of leaf is found in Marsellia?
(A) Megaephyllous
(B) All types
(C) Microphyllous
(D) Compound leaf

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

49 Graphis is classified in which type of lichen?
(A) Fruticose
(B) Foliose
(C) Crustose
(D) Petaloid

50 Antheridia and archegonia grown on different branches which is known as ________.
(A) Option Idioandrosporous and Gynoandrosporous
(B) None of these
(C) Idioandrosporous
(D) Gynoandrosporous