DE-2914
First Year B. Sc. (Sem. I) Examination
March / April - 2016
Botany : 101

Time : 2 Hours] [Total Marks : 50

सूचना / Instructions :

(1) Fill up strictly the details of examination on your answer book.

Name of the Examination :
FIRST YEAR B. SC. (SEM. 1)

Name of the Subject :
BOTANY : 101

(2) प्रश्नांकां कुल 50 प्रश्न छ.
There are total 50 questions.

(3) जसा 5 प्रश्नो इत्यादी है.
All questions are compulsory.

(4) हरेक प्रश्न एक गुणा है.
Each question carries ONE mark.

(5) हरेक प्रश्नांत जीणुपूर्वक अभ्यास करी सायो निर्देश पसंद करो.
Read the question carefully before selecting the correct option.

O.M.R. Sheet फरवा अंगेनी अग्लनी सूचनाओ अभेष
O.M.R. Sheetली पाषण आपेक छ.
Important instructions to fillup O.M.R. Sheet
are given back side of provided O.M.R. Sheet.
1. What shape is the chloroplast of hydrodictyon?
   (A) None 
   (B) Reticulate 
   (C) Spiral 
   (D) Round

2. In which kind of water we find Hydrodictyon Algae?
   (A) Warm water 
   (B) Marine water 
   (C) Fresh water 
   (D) Tidal water

3. Uttar Pradesh covers how many portion of cultivation of pea in all over India?
   (A) 80% 
   (B) 60% 
   (C) 90% 
   (D) 70%

4. Mucor vegetative reproduction is done by special type of hyphae.
   What is it called?
   (A) Gametangium 
   (B) Mycelium 
   (C) Sporangium 
   (D) Stolon
5. What is the name of the cytoplasm located in the middle of archegonium of phytophthora?
   (A) None
   (B) Periplasm
   (C) Vacuole
   (D) Eggplasm

6. Which component is in more amount in the cell wall of phytophthora?
   (A) Lignin
   (B) Glucans
   (C) Pectin
   (D) Starch

7. Which shape chloroplast of spirogyra assume?
   (A) Cup shape
   (B) Reticulate
   (C) Round
   (D) Spiral
8. In which of the following plant we find raceme Inflorescence?
   (A) Colocasia
   (B) Caesalpinia
   (C) Onion
   (D) Adhatoda

9. The length of the sorghum plant is ________.
   (A) 6 – 7 m
   (B) 2.5 – 3 m
   (C) 1 – 2 m
   (D) 1 – 4.5 m

10. In which plant dhurrin is observed?
    (A) Gram
    (B) Mustard
    (C) Sorghum
    (D) Pea
11 Which plant is not obtained from which of the following plant?
(A) Sorghum
(B) Gram
(C) Mustard
(D) Pea

12 Which of the following is responsible for the taste and spiciness of Mustard?
(A) S
(B) Mg
(C) P
(D) Ca

13 Which kind of reproduction is not seen in phytophthora?
(A) Asexual
(B) Fragmentation
(C) Sexual
(D) Gamete formation
14. What is the name of the Cytoplasmic layer in contact with the cell wall of spirogyra?
(A) Periplasm
(B) Replicate
(C) Vacuole
(D) Primordial urticle

15. Spirogyra plant belongs to which family?
(A) Pythiaceae
(B) Poaceae
(C) Mucoraceae
(D) Zygnemataceae

16. Which species of spirogyra holdfast is seen?
(A) S. stolonifer
(B) S. adnata
(C) S. jogensis
(D) S. africanum

17. What is the length of Hydrodictyon thallus?
(A) 10-12 cm
(B) 100-150 cm
(C) 2-8 cm
(D) 20-80 cm
18. What type of reproduction is seen in Hydrodictyon reticulatum?
(A) All
(B) Vegetative reproduction
(C) Asexual reproduction
(D) Sexual reproduction

19. Heliotropium is an example of which Inflorescence?
(A) Corymb
(B) Poly-chasial cyme
(C) Spike
(D) Scorpion

20. Uttar Pradesh covers how many portion of cultivation of Mustard in all over India?
(A) 70%
(B) 60%
(C) 80%
(D) 20%
21. Which genus is included in the order Phytophthora?
   (A) Perenosporales
   (B) Chytriales
   (C) Phaeosphaeriaceae
   (D) Mucorales

In which order phytophthora is included?
   (A) Pterosporales
   (B) Chlorococcales
   (C) Congyugales
   (D) Mucorales

22. Which name is used for the thallophyta body?
   (A) Placenta
   (B) Thallus
   (C) Cytoplasm
   (D) Septum

By what name is the thallophyta body known?
   (A) Placenta
   (B) Thallus
   (C) Cytoplasm
   (D) Septum

23. In which cell is the anaerobic condition of Mucor seen?
   (A) Aplanospore
   (B) Oidia Cell
   (C) Vegetative Cell
   (D) Chlamydomspore

In which cell is the anaerobic condition of Mucor seen?
   (A) Aplanospore
   (B) Oidia Cell
   (C) Vegetative Cell
   (D) Chlamydomspore
24 By what name is the specialist of fungus known?
(A) Embryologist
(B) Algologist
(C) Phycologist
(D) Mycologist

25 Which pulses come on second number in India?
(A) Mustard
(B) Goundnut
(C) Pea
(D) Gram

26 In which types of Inflorescence glumes are present?
(A) Spike let
(B) Spadix
(C) Spike
(D) Umbel
27. By what does vegetative reproduction takes place in Mucor?
(A) Oidia cell
(B) Stolon
(C) Aplanospore
(D) Chlamydospor

28. Which species of Mucor harms the internal Organs of Human?
(A) Mucor mucedo
(B) Mucor stolonifer
(C) Mucor puclis
(D) Mucor jvaricus

29. How many numbers of genetic spiral are there in pentastichous phyllotaxy?
(A) 2
(B) 1
(C) 4
(D) 5

30. In which unfavourable condition the chlamydosporce of Mucor produced?
(A) More Sunlight
(B) More nutrients
(C) More Moisture
(D) More Temperature
31 How many parasitic species of phytophthora seen in India?
(A) 20
(B) 10
(C) 4
(D) 5

32 Which flowers are sterile in capitulum Inflorescence?
(A) All
(B) Disc florets
(C) Ray florets
(D) Tepals

33 Which type of placentation observed in polygonum?
(A) Marginal
(B) Parietal
(C) Basal
(D) Free central

34 Which of the following is not a type of placentation?
(A) Valvate
(B) Marginal
(C) Axile
(D) Parietal
35 वटातांगूत्र वैज्ञानिक नाम .................
(A) Pisi sativum  
(B) Cicer arietinum  
(C) Sorghum vulgare  
(D) Brassica juncea

Scientific name of pea..............
(A) Pisum sativum  
(B) Cicer arietinum  
(C) Sorghum vulgare  
(D) Brassica juncea

36 आमांनी बेल्युमीनोसी कुणी वनस्पति कसे आहे ?
(A) शूरार  
(B) राख  
(C) अंश  
(D) अंगर

Which of the following plant belongs to leguminosae family ?
(A) Sorghum  
(B) Mustard  
(C) Gram  
(D) Oryza

37 खालसारीडियोनाच्या समूहात कितना रेखा पासवाय ?
(A) नमुद शीघ्रां  
(B) पिक्शा शीघ्रां  
(C) आफ्सोर्डियोन  
(D) ओप्सार

What type of structure is possessed coenobial of Hydrodictyon ?
(A) Hexagonal  
(B) Triangle  
(C) Octagonal  
(D) Round
38. What is the detail scientific study of Algae called?
(A) Bryology
(B) Mycology
(C) Morphology
(D) Phycology

39. What is the hypae wall of Mucor made of?
(A) Fungus Protein
(B) Fungus Cuticle
(C) Fungus Cellulose
(D) Fungus Chitin

40. What is called to the modified shoot for the specific function of sexual reproduction?
(A) Bud
(B) Fruit
(C) Seed
(D) Flower
41 Which type of placentation is seen in Argemone?
(A) Free Central
(B) Parietal
(C) Basal
(D) Axile

42 Which of the following is an example of Marginal Placentation?
(A) Dianthus
(B) Tomato
(C) Acacia
(D) Cucumber

43 Which phyllotaxy is seen in papaya?
(A) Tristicous
(B) Octastichous
(C) Pentastichous
(D) Distichous
44. By what other name is Spirogyra known?
(A) Pond Silk
(B) Water net
(C) Mycelium
(D) Coenobial

45. By what name is the reproduction through conjugation tube of the two filaments of Spirogyra known?
(A) Scalariform Conjugation
(B) Lateral Conjugation
(C) Fragmentation
(D) Chain Conjugation

46. What is the name of structure above the sporangium of Phytophthora?
(A) Fertilization tube
(B) Columella
(C) Cilia
(D) Papali
47 In which phyllotaxy 135° angle of divergence is seen?
(A) Octastichous
(B) Tristichous
(C) Pentastichous
(D) Distichous

48 The amount of carbohydrate, protein, fat in dry seed of gram is...
(A) 61.2%, 17.1%, 5.3%
(B) 17.1%, 5.3%, 61.2%
(C) 61.2%, 5.3%, 17.1%
(D) 17.1%, 22.5%, 5.3%

49 What is the yearly production of pea in India?
(A) 22,000 tons (ton)
(B) 39,000 tons (ton)
(C) 50,000 tons (ton)
(D) 25,000 tons (ton)

50 Which plant is useful for joint pain?
(A) Pea
(B) Gram
(C) Sorghum
(D) Mustard