DE-2915
First Year B. Sc. (Sem. I) Examination
March/April – 2016
Botany : Paper - 102
(Plant Resources, Nursery & Weed Management, Diversity of Higher Cryptogams)

Time : 2 Hours] [Total Marks : 50

सूचना / Instructions :

(1) Fillup strictly the details of signs on your answer book.
Name of the Examination :
F. Y. B. Sc. (Sem. 1)
Name of the Subject :
BOTANY : PAPER - 102
Subject Code No. 2 9 1 5 Section No. (1, 2,.....) Nil
Student's Signature

(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 बरवा अंगेनी असतणी सूचनातून आपेक्ष
O.M.R. Sheet-ली पॅच चापेख हे.
Important instructions to fillup O.M.R. Sheet
is given on back side of the provided O.M.R. Sheet.
1. "TCA", "MCPA" શું નથી?
   (A) નકક્ક હશે
   (B) કાળ્યં પર કરોતું મિક અને પાવર દ્વારા જાણે
   (C) કાળ્યં પર કરોતું મિક
   (D) પાવર દ્વારા
   The "TCA" and "MCPA" are not
   (A) Weedicides
   (B) Manual weed control and Power tools both
   (C) Manual weed control
   (D) Power tools

2. કઈ વન્સટિમાંડી "લોબણ" ભયે છે?
   (A) Santalum album
   (B) Cymbopogon martinii
   (C) Pandanus odoratissimus
   (D) Styrax benzoid
   From which plant "lobaan" is obtained?
   (A) Santalum album
   (B) Cymbopogon martinii
   (C) Pandanus odoratissimus
   (D) Styrax benzoid

3. સોયાબીન કયા પ્રકારની પાણી વન્સટિત છે?
   (A) ખાકરિબજ
   (B) શુભ ર
   (C) ખીના
   (D) અનાજ (પાંચ)
   Soyabean is the food plant of
   (A) Vegetables
   (B) All of these
   (C) Pulses
   (D) Cereals
4. The sporophyte of Riccia is represented by:
(A) Sporangium
(B) None of these
(C) Antheridia
(D) Archegonia

5. The grafting of cleft or wedge is used maximum in which plant?
(A) Orange
(B) All of these
(C) Chickoo
(D) Mango

6. Leafy part on Fern (Nephrolepis) plant is known as
(A) Stipe
(B) All of these
(C) Stem
(D) Rachis

7. Which weed plant belongs to Amaranthaceae family?
(A) Cypraceae
(B) Amaranthus and Alternanthera both
(C) Amaranthus
(D) Alternanthera
8. In Moss (Funaria) the gamme are formed on
(A) Axis and Rhizoids
(B) All of these parts
(C) Axis and leaves
(D) Rhizoid and leaves

9. Which one of the following plant seed is known as "Rajma" is used as food?
(A) French bean
(B) None of these
(C) Soyabean
(D) Cow pea

10. In Moss (Funaria), the peristomial thickenings are laid down as
(A) Spiral bands
(B) Tangential bands
(C) Reticulum
(D) Radial bands
11. In which country, people uses the marine weed plants as food?
(A) China and Japan both
(B) None of these
(C) China
(D) Japan

12. The diameter of Moss (Funaria) spore is
(A) 0.012 to 0.030 mm.
(B) 0.012 to 0.015 mm.
(C) 0.06 to 0.012 mm.
(D) 0.08 to 0.012 mm.

13. State the time duration used for the grafting of Bud in Phanerogames plant?
(A) March or April
(B) All of these
(C) December or January
(D) May or June
14 The function of Sporophyll in Fern (Nesphrolepis) is
(A) Sexual reproduction
(B) All of these
(C) Vegetative
(D) Asexual reproduction

15 Riccia belongs to class of
(A) Filiceanae
(B) None of these
(C) Pteridophyte
(D) Hipataceae

16 Which fruit vegetable does not belong to Papilionaceae family?
(A) Bean
(B) Lady's finger and Ridge gourd both
(C) Lady's finger
(D) Ridge gourd
17 Which type of reproduction is done by sori in Fern (Nephrolepis)?
(A) Sexual reproduction
(B) None of these
(C) Asexual reproduction
(D) Vegetative reproduction

18 Which weed plant does not belong to Poaceae family?
(A) Desmostechia spp.
(B) Malachara capitata
(C) Panicum diycotomiflosi
(D) Cyanadone dectyone

19 Which generation starts from Riccia thallus?
(A) Sometimes Gametophyte and sometimes Sporophyte
(B) All of these
(C) Gametophyte
(D) Sporophyte

20 In which of the following vegetative reproduction is not shown by bulbill?
(A) Banana
(B) Guava and Banana both
(C) Agave
(D) Guava
21. What is the name of the method used to propagate a plant?
   (A) Tissue Culture
   (B) Apical Meristem Pruning
   (C) Cutting Propagation
   (D) Soil Layering Propagation

   Which example is "twist layering"?
   (A) Cutting Propagation
   (B) None of these
   (C) Air Layering Propagation
   (D) Soil Layering Propagation

22. Which method is used for propagation in the stem of a flower?
   (A) Budding
   (B) Grafting
   (C) Rooting
   (D) Inoculation

   Which one of the following food plants has the ability to fix nitrogen?
   (A) Nuts
   (B) All of these
   (C) Cereals
   (D) Pulses

23. "Malchara kapda" is a plant that belongs to which family?
   (A) Malvaceae
   (B) Rosaceae
   (C) Acanthaceae
   (D) Amaranthaceae

   The weed plant Malchara capitata belongs to family
   (A) Euphorbiaceae
   (B) Gramineae
   (C) Malvaceae
   (D) Amaranthaceae
24 The growth of Riccia thallus starts from the
(A) Apical portion of Ridge and Basal portion Ridge both
(B) Sometime Apical portion of Ridge and sometimes Basal portion Ridge
(C) Apical portion of Ridge
(D) Basal portion Ridge

25 The fruit vegetable - French bean belongs to family ....
(A) Solanaceae
(B) None of these
(C) Malvaceae
(D) Papilionaceae

26 The colour of spore in Fern (Nephrolepis) is
(A) Purple
(B) None of these
(C) Black
(D) Brown

27 Give the name of weed which comes from other area to the fields and settles there
(A) non native weed
(B) foreign weed
(C) native weed
(D) imported weed
28 The function of dorsal portion in Riccia thallus is
(A) Fixation
(B) All of these
(C) Absorption
(D) Photosynthesis

29 In which season, the growth rate of grafting is low?
(A) Monsoon
(B) Summer and Monsoon both
(C) Winter
(D) Summer

30 Which underground root plant is not used as food plant?
(A) Carrot
(B) Alternenthera
(C) Radish
(D) Yams
31. Vegetative reproduction is done by adventitious bud in
(A) Sweet potato
(B) All of these
(C) Fern (Nephrolepis)
(D) Adiantum

32. Which one following Gramiheae family plant is used as food during "fast day"?
(A) Rai
(B) Moriyo
(C) Finger millet(nagali)
(D) Kodara

33. In bryophyte the diploid number of chromosomes occurs in the
(A) Rhizoids and scale
(B) Spore mother cells
(C) Gametes
(D) Spores
34. The gametophytic generation of Riccia begins from spore and terminates at
(A) Spore
(B) Protonema
(C) Gamete
(D) Thallus

35. Modern "Power tools" is used in the type of weed control method of
(A) Mechanical weed control
(B) None of these
(C) Manual weed control
(D) Chemical method control

36. Heart shaped prothallus of Fern (Nephrolepis) represents
(A) Only gametophytic stage and Only sporophytic stage both
(B) Either gametophytic or sporophytic stage
(C) Only gametophytic stage
(D) Only sporophytic stage
Which fungicide is used for the cutting part of the cutting grafting?

(A) Fermet
(B) All of these
(C) Faigone
(D) Aresone

The cells of sporangial annulus in Fern (Nephrolepis) contain a thickening along

(A) Radial and Inner tangential walls both
(B) None of these
(C) Radial
(D) Inner tangential walls

Which weedicide is not in chemical control method?

(A) Trychloro acetic acid
(B) Paris green and Trychloro acetic acid both
(C) 2-4 dichloropĥinoxi acetic acid
(D) Paris green
40  Moss (Funaria) na mudh prakruti na adhivartaani bhaktari bhrj
(A) vaipuru-sne gairaghar
(B) shrutikla gairaghar ane vaipuru-sne gairaghar abne
(C) shrutikla khal
(D) shrutikla gairaghar

In main stem of Moss (Funaria), the outer side of epidermis has
(A) Absence of stomata
(B) Absence of cuticle and Absence of stomata both
(C) Presence of cuticle
(D) Absence of cuticle

41  Kusaraj (Nephrolepis) maa ekhat prakriti ane aharo abharo bhago vato nahi?
(A) aagad-sudharni
(B) paamay-paamyon
(C) parag-paamyon
(D) paamyon

Which of the following is not involved in the fertilization of Fern (Nephrolepis)?
(A) Archegonia
(B) Flagellated sperms
(C) Pollen tube
(D) Water

42  Khiron-agnadwastati mote bhago kyun kuna darave chi?
(A) poinesi
(B) akhey naari
(C) malinesi
(D) bagumitholinesi

Pulses plants mostly belongs to ________ family.
(A) Poaceae
(B) None of these
(C) Malvaceae
(D) Leguminosae
43. Which one of the following statements is not true for bryophyta?

(A) Their zygote undergoes meiosis and then produce the sporophyte.
(B) On germination of spores gametophytes are produced.
(C) They lack tracheids and sieve tubes.
(D) They are photosynthetic.

44. The natural, seedless form is called?

(A) Embryo
(B) Sporangium
(C) Sporophytes
(D) Algal plant

Which is artificial method of the propagation?

(A) Grafting method
(B) All of these
(C) Physical method
(D) Chemical method

45. The hard fibres are

(A) Air resistant
(B) Gas resistant
(C) Water resistant
(D) Pest resistant

46. What is Battachlor?

(A) Manual weed control
(B) None of these
(C) Power tools
(D) Weedicides
47. Moss (Funaria) may undergo growth by which of the following processes?
(A) A single apical cell with three cutting faces
(B) All of these
(C) A group of meristematic cells
(D) A single apical cell with four cutting faces

48. Ferns (Nephrolepis) belong to which subclass?
(A) Filicales
(B) None of these
(C) Braid
(D) Leptosporangiate

49. In vegetative reproduction, the bud is originated from which part of the plant?
(A) Flower
(B) Root and Rachis both
(C) Root
(D) Rachis

50. In Moss (Funaria), the structure which has haploid number of chromosomes is
(A) Peristome
(B) None of these
(C) Spore mother cell
(D) Zygote