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No. of Printed Pages : 04

SEAT NO. _____

SARDAR PATEL UNIVERSITY

B. Sc. SEMESTER-4 EXAMINATION- APRIL -2022

SUBJECT- BOTANY (PAPER CODE: US04CBOT21)

(ARCHEGONIATES, ECONOMIC AND NUTRACEUTICAL BOTANY)

Date: 12/04/2022

Total marks: 70

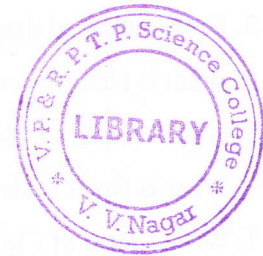
Time: 03:00 to 05:00p.m.

Tuesday

Q.1. Choose the most appropriate answer.

(10)

1. Basal elaterophore is present in _____.
a) Pellia b) Porella c) Funaria d) Riccardia
2. Elongated cylindrical sporangium is a characteristic of _____.
a) Riccia b) Anthroseros c) Funaria d) None of these
3. In Funaria plants, stomata are present in _____.
a) Foot b) Capsule c) Seta d) None of these
4. In rhizome of Psilotum, the stele is a _____.
a) Protostele b) Solenostele c) Siphanostele d) Dictyostele
5. Ligulate leaves are found in _____.
a) Lycopodium b) Selaginella c) Equisetum d) Marsilea
6. Scaly leaves are present in _____.
a) Psilotum b) Marchantia c) Pinus d) Selaginella
7. Family name of Digitalis is _____.
a) Palmaceae b) Scrophulariaceae c) Pineceae d) Mirtaceae
8. Scientific name of Sandalwood is _____.
a) Papaversomniferum b) CoffeaArabica c) Glycine max d) Santalum album
9. Spirulina is a _____.
a) Algae b) Fungi c) Bryophyte d) Pteridophyte
10. Lacithin is a _____ type of Component.
a) Hydrophilic b) Amphiphilic c) Lipophilic d) None of these



Q.2. Do as directed.

(08)

1. In Funaria (Moss), the plant body is differentiated into root, stem and leaves. (True/False)
2. In bryophytes, calyptra develops from _____.
3. The sporangium of Rhynia has a solid columella. (True/False)
4. The secondary tissue in Gnetum stem shows annual rings. (True/False)
5. Family name of Black Pepper is _____.

①

(P.T.O.)

6. Useful part of Linseed is its leaves. (True/False)

7. Scientific name of Grapes is _____

8. Omega-3-S gives energy in body. (True/False)

Q.3. Answer the following questions in short (Any Ten)

(20)

1. Write the names of the rhizoids found in Marchantia.

2. What is Monoecious and Dioecious?

3. Draw a labeled diagram of Pellia sporophyte.

4. What is Heterospory?

5. Give a classification of Marsilea.

6. What is Bract scale and Ovuliferous scale?

7. Write a uses of Clove.

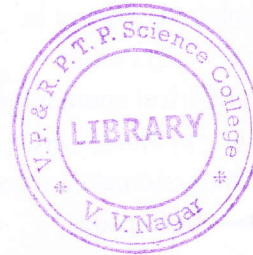
8. Write a Scientific name & Family of Jute.

9. Write the medicinal properties of Cinchona.

10. Write any two name of main Omega-3 fatty acid.

11. Write a function of Glucosamine.

12. Write uses of Flaxseed oil.



Q.4. Answer following questions in details (Any Four).

(32)

1. Describe Atheridiophore of Marchantia.

2. Draw a labeled diagram of internal structure of Funaria (MOSS) Capsule (L.S.).

3. Describe the Gametophyte stage of Selaginella.

4. Describe the female strobilus of Gnetum.

5. Write in brief about Beverages (Tea & Coffee).

6. Write in brief about Timber plants (Teak & Pine).

7. Write in brief about Caffeine and Green tea.

8. Write a short note about Carnitine.