



PB-003-001613

Seat No. _____

B. Sc. (Sem. VI) (CBCS) Examination

March / April - 2020

Botany : B-603

*(Instrumentation, Adv. Tech. in Biology,
Forest & Forestry, Medi., Plan., & Eco.)
(Old Course)*

Faculty Code : 003

Subject Code : 001613

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :** (1) This question paper contains three question all are compulsory.
(2) Draw neat and labeled diagram wherever necessary.
(3) Figure to the right indicate marks.

1 Write answer in very short : 20

- (1) Give the full form of NSC.
- (2) Incubator is used for _____
- (3) Spectrophotometer is used for _____
- (4) Write the full form of HPLC.
- (5) Write one use of PCR.
- (6) What is afforestation.
- (7) Write one use of centrifuge.
- (8) Which biomolecule is not separated by electrophoresis?
- (9) Which type of sterilization occur in oven _____.
- (10) Define : horticulture.
- (11) The movement of molecules in electrophoresis is depending on _____.
- (12) The maintenance of medicinal plant outside their natural habitat is called _____

- (13) What is agro forestry.
- (14) What is biodiesel?
- (15) Who developed the Autoclave?
- (16) Write the family of Teak plant.
- (17) Give the scientific name of Tulsi.
- (18) Scientific name of Arduisi.
- (19) Which type of forest is occur in region where annual rainfall is 200 cm?
- (20) Give the characteristic of dry land

- 2** (a) Write answer in short : (any **three**) **6**
- (1) Explain disadvantage of bio-diesel.
 - (2) Explain the principle of TLC.
 - (3) Write the component of spectrophotometer.
 - (4) Explain any one major fruit of India.
 - (5) What do you mean by silviculture?
 - (6) Write a four function of centrifuge.
- (b) Write answer in brief : (any **three**) **9**
- (1) Give principle of centrifuge.
 - (2) Explain in any two vegetative propagation method in horticultural practices.
 - (3) Write future of traditional medicine in India.
 - (4) Explain applications of PCR.
 - (5) Write the design of oven.
 - (6) Give sources of bio-diesel plant in Gujarat.
- (c) Write answer in detail : (any **two**) **10**
- (1) Describe the conservation of medicinal plants.
 - (2) Write method of performing GC.
 - (3) Write an the problem of dry land farming.
 - (4) Give scientific name, family and uses of any five important medicinal plant of Gujarat.
 - (5) Write an essay on : Agroforestry.

- 3** (a) Write answer in short : (any **three**) **6**
- (1) Write a short note on : Silviculture.
 - (2) Explain principle of incubator.
 - (3) Write note on state seed corporation.
 - (4) Explain the ethanobotany.
 - (5) Give importance of seedproducing organization.
 - (6) What is the meaning of forest mensuration ?
- (b) Write answer in brief (any **three**) **9**
- (1) Write notes on medicinal plant- Arduisi.
 - (2) Explain teak forest product.
 - (3) Write a scope of ethano medicine.
 - (4) Write future of ideal supporting medium in electrophoresis.
 - (5) Explain the principle of HPLC.
 - (6) Explain : national forest policy.
- (c) Write answer in detail : (any **two**) **10**
- (1) Give the outline of classification of indian forests.
 - (2) Explain the plant growing operation in horticulture.
 - (3) Write note on: design and application of autoclave.
 - (4) Explain Classification of Indian forest.
 - (5) Discuss approach of Aforestration.
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