



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 occurs 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 Ardusi.
(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- Arduis.
- (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.
