

**B.Sc. Semester - 6 (CBCS) Examination****March/April -2019****INSTRU.,AD.TECH.,FORESTRY, MEDI PLANT AND ECO. BOT(CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- 1 (A) Answer in very short. (Any three)** **03**
- (1) Who developed the autoclave?
  - (2) Fill in the blank: Spectrophotometer is used for \_\_\_\_\_
  - (3) What is filled between two walls of incubator?
  - (4) Which Instrument is used to separate particles ?
  - (5) Which type of sterilization occur in oven?
- 1 (B) Answer in brief (Any one)** **04**
- (1) Write the design and application of incubator.
  - (2) Write the design and function of centrifuge.
- 1 (C) Answer in detail (Any one)** **07**
- (1) Write about principle, design and applications of autoclave.
  - (2) Write about principle, design and applications of oven.
- 2 (A) Answer in very short. (Any three)** **03**
- (1) Fill in the blank: In TLC the glass plate functions as \_\_\_\_\_
  - (2) Give Full form of HPLC.
  - (3) Name the classes of gas chromatography based on the nature of stationary phase.
  - (4) Fill in the blank: The Movement of molecules in electrophoresis is dependent on \_\_\_\_\_
  - (5) Fill in the blank: PCR is technique of \_\_\_\_\_
- 2(B) Answer in brief (Any one)** **04**
- (1) Write about design of Electrophoresis Unit.
  - (2) Explain applications of HPLC.
- 2(C) Answer in detail (Any one)** **07**
- (1) Give brief account of PCR.
  - (2) Write methods of performing GC.
- 3(A) Answer in very short. (Any three)** **03**
- (1) In Gujarat which type of forest is found.
  - (2) Which is the first biggest biosphere reserve in india ?
  - (3) Which type of forest is occur in regions where annual rainfall is more than 200 cm ?
  - (4) What is Aforestation ?
  - (5) Fill in the blank: Giant evergreen forest is found in \_\_\_\_\_
- 3(B) Answer in brief. (Any one)** **04**
- (1) Write notes on : Social Forestry.
  - (2) Write notes on : wild life.

- 3(C) Answer in detail. (Any one)** **07**
- (1) Give brief outline of classification of Indian forests.
  - (2) Explain : structure and identification of wood.
- 4(A) Answer in very short. (Any three)** **03**
- (1) Fill in the blank: Eugenol a drug is volatile oil obtained \_\_\_\_\_  
And \_\_\_\_\_ contains from \_\_\_\_\_ medicinal plant.
  - (2) Fill in the blank: An important medicine for bronchitis is obtained  
from \_\_\_\_\_ medicinal plant.
  - (3) Which medicinal plant is used in maintaining dental hygiene.
  - (4) Which medicinal plants fresh roots are used as excellent brain and nerve tonic.
  - (5) Fill in the blank: In India the earliest reference to the medicinal value of plants appears in  
\_\_\_\_\_
- 4(B) Answer in brief. (Any one)** **04**
- (1) Write notes on the medicinal value of Neem.
  - (2) Describe the plant of medicinal importance of the Ocimum (Tulsi).
- 4(C) Answer in detail. (Any one)** **07**
- (1) Give the botanical names , family, parts uses and medicinal values of vasaka (Ardusi).
  - (2) Write a brief account of medicinal plants you have studied along with botanical notes of Ashwagandha.
- 5(A) Answer in very short. (Any three)** **03**
- (1) Fill in the blank: In India wheat is grown as \_\_\_\_\_ crop.
  - (2) Write botanical name and family of Gram.
  - (3) True and False : caffeine and caffetannic acide are the two main alkaloids present in coffee seeds.
  - (4) Name a Semi drying Oil plant.
  - (5) True and False : Clove are obtained from seeds.
- 5(B) Answer in brief. (Any one)** **04**
- (1) Write a brief account of non alcoholic beverages : Tea
  - (2) Discuss briefly about green gram.
- 5(C) Answer in detail. (Any one)** **07**
- (1) Give a General account, cultivation, botanical name and uses of Rice.
  - (2) Explain : cultivation and economic importance of sesame.