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6 SEM TDC BOT M 6

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(May)

BOTANY

(Major)

Course : 606

**(Agrotechnology and Sustainable
Utilization of Plants)**

Full Marks : 48

Pass Marks : 19/14

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

1. (a) Fill in the blanks : 1×5=5

(i) The centre of origin of potato is _____.

(ii) Agar oil, derived from the _____ of *Aquilaria agallocha*.

(iii) The botanical name of silikha is _____.

(iv) _____ are the microorganisms which bring soil nutrient enrichment, maximize the ecological benefits and minimize the environmental hazards.

(v) Essential oils have a characteristics _____ or taste which they impart to the plants in which they occur.

(b) Write short accounts of the following :

3×3=9

(i) Importance of germplasm collection

(ii) Biography of N. I. Vavilov

(iii) Non-alcoholic beverages

2. Write about the agrotechnology of turmeric or black pepper along with its economic utilization. Mention the scientific name of the plant along with its family.

6+3+2=11

Or

What are the different types of biofertilizers? "Biofertilizers are generally ecofriendly."

Justify your answer.

8+3=11

3. What is biodiesel? Write an explanatory note on the botany of *Jatropha* plant. Also mention about the advantages of biodiesel.

1+5+5=11

(3)

Or

What are the different uses of wood? Mention the scientific names along with their families of teak, sisoo, sal, ajar and nahor. $6+5=11$

4. Write the botanical names along with their families of the following plants and also write on their economic utilization of different useful parts (any four) : $(1+1+1)\times 4=12$

- (a) Groundnut
- (b) Tomato
- (c) Ashwagandha
- (d) Patchouli
- (e) Gram
- (f) Ramie
