

2017

(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 _____.

(Turn Over)

(2)

(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=

(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=

Or

What are the different types of biofertilizers? "Biofertilizers are generally ecofriendly." Justify your answer.
8+3=

3. What is biodiesel? Write an explanatory note on the botany of *Jatropha* plant. Also mention about the advantages of biodiesel.
1+5+5=

(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)×4=12

(a) Groundnut

(b) Tomato

(c) Ashwagandha

(d) Patchouli

(e) Gram

(f) Ramie
