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**6 SEM TDC BOT M 6**

**2 0 1 6**

( May )

**BOTANY**

( Major )

Course : 606

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

Full Marks : 48

Pass Marks : 19

Time : 2 hours

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

1. (a) Fill in the blanks : 1×5=5

(i) \_\_\_\_\_ defines ethnobotany as “the study of the utilitarian relationship between human beings and vegetation in their environment, including medicinal uses”.

(ii) The branch of the plant immune system, pathogen detection system widely referred to as \_\_\_\_\_ is often the first inducible response of a plant to a pathogen.



( 2 )

(iii) \_\_\_\_\_ is the dominant non-alcoholic beverage plant of Assam.

(iv) \_\_\_\_\_ quality and consistency are important for producing biodiesel.

(v) The scientific name of agar plant is \_\_\_\_\_.

(b) Write short accounts of the following :  
3×3=

(i) Gene bank and gene library

(ii) Organic farming and its benefit

(iii) Plant immune system

2. Define biopesticides and classify them into major classes. What are the advantages of using biofertilizers? How does EPA encourage the development and use of biopesticides?  
5+4+2=1

Or

Describe the agrotechnology of tea or coffee along with its economic importance. Write the scientific name of the plant along with its family.  
6+3+2=1

3. Give an account of the method of cultivation and economic utilization of either citronella or vetiver.  
7+4=1

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( Continued

( 3 )

Or

Explain the Vavilov's centre of origin of crop plants. Write a detailed account on the Indigenous Knowledge System (IKS). 5+6=11

4. Write the botanical names along with their families of the following plants and give short accounts on their economic importance of the different useful parts (any three) :  
(1+1+2)×3=12

(a) Sassi

(b) Sunflower

(c) Bamboo

(d) Sarpagandha

(e) Turmeric

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