6 SEM TDC BOT M 6

2016

(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=
		(i)	defines ethnobotany as study of the utilitarian relation between human beings vegetation in their environments of the control	ship and
		(ii)	The branch of the plant imm system, pathogen detection sy widely referred to as	stem

plant to a pathogen.

the first inducible response of a

(Turn Over)

- (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=9

 (i) Gene bank and gene library

 (ii) Organic farming and its benefit

 (iii) Plant immune system

 Define biopesticides and classify them into major classes. What are the advantages of using biofertilizers? How does EPA encourage
 - Or

the development and use of biopesticides?

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=11

 Give an account of the method of cultivation and economic utilization of either citronella or vetiver.

2.

5+4+2=11

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*):

 $(1+1+2)\times 3=12$

- (a) Sassi
- (b) Sunflower
- (c) Bamboo
- (d) Sarpagandha
- (e) Turmeric
