This question paper contains 4+2 printed pages]					
Roll No.					
S. No. of Question Paper : 5950					
Unique Paper Code : 216301 D					
Name of the Paper : Plant Resource Utilization (BTHT 304)					
Name of the Course : B.Sc. (Hons.) Botany					
Semester : III					
Duration: 3 Hours Maximum Marks: 75					
(Write your Roll No. on the top immediately on receipt of this question paper.)					
Attempt Five questions. Question No. 1 is compulsory.					
All parts of a question must be answered together.					
$f_{v,1} = f_{v,1} + f_{v,2} + f_{v$					
1. (a) Fill in the blanks (any five): $5\times1=5$					
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(<i>b</i>)	Exp	oand the following (a	any five) :			5×1=5
	(<i>i</i>)	ICRISAT		,		
	(ii)	CDRI				
	(iii)	IRRI				
	(iv)	CTRI			•	
	(v)	CPRI				
	(vi)	FRI				
	(vii)	IARI.				
(c)	Mat	tch the following:				5×1=5
	(i)	Hallucinogens	(a)	Coconut		
	(ii)	Copra	(<i>b</i>)	Tea		
	(iii)	Stimulant	(c)	Cannabis		
	(iv)	Sandalwood	(d)	Poppy		
	(v)	Codeine	(e) ·	Incense sticks		•
2. (a)	Dra	w labelled diagrams	of any two	of the following (V	Vrite botanic	al name
	and	family):				2×2.5=5
	(i)	Section of mericarp	of Fenne	<u>.</u>		•
	(ii)	T.S. of coffee beans				
	(iii)	L.S. of Wheat grain	1			
	(iv)	T.S. of Jute stem.				
				•		

(b)	What is the importance of plant legumes in our lives?	5
(c)	Write the centre of origin for the following plants (any five):	5×1=5
	(i) Black pepper	
	(ii) Rice	
	(iii) Sugarcane	
	(iv) Tea	
	(v) Groundnut	
	(vi) Rubber	
(a)	Write short notes on the following (any two):	2×2.5=5
•	(i) Vavilov's world centres of origin of cultivated plants;	·.
	(ii) Cotton fibre;	
. •	(iii) Citrus Fruit;	
	(iv) Uses of Digitalis.	
(<i>b</i>)	Write the botanical name and family of (any five):	5×1=5
	(i) Opium poppy;	
	(ii) Papaya;	
	(iii) Chickpea;	
	(iv) Tea;	
	(v) Khaskhas;	
	(vi) Flax.	n m 🔿
		P.T.O.

3.

		(4)	5950
	(c)	How is chocolate prepared from Cocoa beans?	5
4.	(a)	(i) Why is the tea plant often pruned?	2.5
		(ii) Why are essential oils referred to as 'essential'? W	hat are their
		uses ?	2.5
	(b)	What is cane sugar? Write an account of the commercial	production of
		cane sugar.	5
	(c)	Write the common adulterants of (any five):	5×1=5
		(i) Coffee	
		(ii) Saffron	
		(iii) Cocoa	
		(iv) Pepper	
	-	(v) Brassica	. •
		(vi) Turmeric.	
5.	Diff	Gerentiate between (any five):	5×3=15
	(<i>i</i>)	Sweet and bitter cassava;	,
	(ii)	Sapwood and Heartwood;	

- (iii) Non-drying and drying oils;
- (iv) Bast and surface fibres;
- (v) Bhang and charas;
- (vi) Flue curing and air curing.
- 6. (a) What is TPS technology and what are its advantages?
 - (b) What is rubber? Describe its method of extraction and uses.
 - (c) Write True or False:

 $5 \times 1 = 5$

5

- (i) Bhang produces a higher degree of intoxication than ganja.
- (ii) Ageing of tobacco leaves is a process that results in an increase in their nicotine content.
- (iii) The lemon fruit is a special type of drupe.
- (iv) Jaggery is referred to as centrifugal sugar.
- (v) . Non-drying oils form an elastic film on exposure to air.
- (vi) Essential oils are secondary plant metabolites.

7. (a)	Name the two principal States where the fol	lowing crops are cultivated
	extensively (any five):	5×1=5
	(i) Saffron;	
	(ii) Black Pepper;	
	(iii) Tobacco;	
<i>2</i> .	(iv) Sandalwood;	
	(v) Quinine tree;	
	(vi) Rubber.	
(b)	Write short notes on (any four):	4×2.5=10
	(i) Ratoon crop;	
	(ii) Retting;	
	(iii) Parboiling,	
	(iv) Green revolution;	
	(v) Opium and its derivatives.	