Sr. no. of paper: 8536 C Roll no.:

Unique Paper Code: 216301

Name of the Paper: BTHT 304 : Plant Resource Utilization

Name of the Course: B.Sc. (Hons) Botany

Semester: III

Duration: 3 hours

Maximum Marks: 75 Marks

Instruction for candidates

Attempt <u>five</u> questions in all. <u>Question No. 1 is compulsory</u>. All questions carry equal marks. Draw diagrams and write botanical names wherever necessary. Attempt all parts of question together.

Q 1(a). Fill in the blanks:			$0.5 \times 10 = (5)$
i.	Fruit mature underground inPhenomenon of biennial/ alternate bea	<u>.</u>	
ii.	Phenomenon of biennial/ alternate bea	ring is commonly met in	l
iii.	is a non – alcoholic be	verage.	
iv.	is an example of bast	fibre.	
v.	Paper used in cigarette wrapping		
vi.	Leaf fibres of are use	ed for making tea bags.	
vii.	Legumes are important to both	and	•
viii.	A drug plant used as myocardial stimu	lant is	.•
ix.	is a plant showing cau	aliflory.	
х.	Practice of ratooning is used for propa	gating	•
(b). Ma	tch the following:		$0.5 \times 10 = (5)$
i.	Black pepper	A. No vessel	
ii.	Mango	B. Solanaceae	
iii.	Rauwolfia	C. Female plant	
iv.	Para rubber	D. Reserpine	
v.	Opium	E. Mustard	
vi.	Fatty oil	F. Anacardiaceae	
vii.	Cannabis	G. "King of Spice"	
viii.	Tobacco	H. Essential oil	
ix.	Pine	I. Codeine	
X.	Rose	J. Euphorbiaceae	

(c). Give	botanical name and family of the following:	$1 \times 5 = (5)$
i.	Linseed	
ii.	Papaya	
iii.	Surface fibre	
iv.	Cocoa	
ν.	Wonder bean	
Q 2. Draw	well labelled diagrams of the following:	$5 \times 3 = (15)$
	L.S wheat caryopsis	
	T.S schizocarpic fruit	
iii,	T.S. jute stem	
	C.S of potato tuber	
v.	Branching pattern of cocoa	
-	entiate between:	$5 \times 3 = (15)$
	Lathyrism and Favism	
	Black tea and Green tea	
	White jute and Tossa jute	
	Indica and Japonica rice	1
v.	Dry and wet processing of coffee	
O 4 White	shout notes our	2 - 5 - (15)
-	short notes on:	$3 \times 5 = (15)$
	Origin of hexaploid wheat	
	Extraction of essential oil	
iii.	Products and by products of sugarcane industry	
O.5 Mentic	on the scientific name, morphology, chief chemical constituen	ts and uses of the
follow		$3 \times 5 = (15)$
	Quinine	3 x 3 - (13)
	Black pepper	
	Нетр	
111.	пепр	
O 6 (a) Wh	at is retting? Explain this process in Jute.	(5)
	borate on the health implication and uses of oils and fats.	(5)
	mment on therapeutic and habit forming nature of two medicin	
(-)00.	medical control of the medical control of the medical	mar pranto. (5)
Q 7 (a). Cri	tically explain how domestication resulted in loss of genetic d	iversity. Write down
	importance of germplasm diversity	(5)
	e about the centre of origin of crops plants. Discuss in relation	n to Vavilov's concept.
` '	C - F - F	(5)
(c) Give	e a brief account of tapping and uses of rubber.	(5)
	11 0	(-)