## MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

							MINATION
Seme	ster		V(N	В.	Sc. (Agr	i.)	)
	se No.	:	V (New) ENGG 353		Term	:	: I Academic Year : 2013-14
Credi		:	2(1+1)		Title	:	Farm Power and Machinery
	& Date	<u>:</u>	Monday, 28.10.20	13	Time	•	: 14.00 to 16.00 Total Marks : 40
	Note:	1, 2, 3, 4,	Solve ANY EIG All questions fro All questions car Draw neat diagra	ty equal ma	ns from S N "B" ar	E C	ECTION "A". compulsory.
Q.Í	Give d	L		SEC	CTION '	A'	<b>\n</b> " .
<b>/</b> `	Give	ne j	merits and demer	ts of anima	al and m	cc	chanical power.
Q.2 Q.3	Explan	n ti	ne working of sim	ple carbure	etor with	ı h	help of neat diagram.
	consun Mechai	ipti nic	ion is 4.5 Kg al efficiency and	45 cm, too and work specific fu	que duo king sp el consu	ee mp	ssure of 7 Kg/cm <sup>2</sup> , area of piston is to brake load is 110 Kg-meter, fuel ed 120 rev/min. Find IHP,BIHP, aption.
			ctor. Give differe				
ŀ	NS. 4,5.	0,0	00/ life of tracto	or is 10 year	irs, rate	of	on the cost of 35HP diesel tractor is finterest is 12 per cent and working sumption: if necessary.
Q.6 (	Give the	e ac	dvantages and dis	sadvantage	s of disc	p.	plough.
ў.7 A Ig	\ harro p√hour	w y an	with 50 spikes ead working width	nch giving of harrow	a resista 1.5 met	and er,	nce of 1 kg, speed of the bullocks 4 r, calculate:
			ered per day of 8				aired horse power to pull the harrow
		1					crops and state the function of seed drill
	/hat do	yo	understand by	proper reg	istration	ı a	and alignment of mower?
.10 G	ive the	cla	assification of sp	rayers and	dusters	٠ ١	
				SEC	TION "	B"	**************************************
11 Se	elect the	e n	roner answer fro	m the brac	ket.		
	Select the proper answer from the bracket.  1) has more thermal efficiency. (Diesel engine/Carburetor engine)						
							lane in disc plough is known as
			e/ disc angle/ kin			1	rane in the prough is known as
3)		,O-`			-	toi	on head. (BHP/JHP/FHP)
,	A pair	bu					. (One-tenth/one/half)
						·	
			ollowing terms.	7) U	aati		
	Tillage			2) Harv	-		
3) 8	Seed m	ete	ring	4) Horse	power		

Q.