	Q.F	<b>P. Code:</b> 18	AG07	25									Section 2	R	18
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			alt may	i dista	stin 19	iachar o		JTON(			1	tener 1	o martin an		
			B.Te	ch IV Y				Regul					uary-2022		
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						<b>C</b> -	-8		8		57				
	Tim	ne: 3 hours				÷		DA	DT A				Max	. Marks	: 60
					( )	n ann an	all +h	Concession of the local division of the loca	RT-A	•	- 10 1	Aculta			
1	a	What is fi	nal dri	ve?	(A	nswer	an th	e Ques	tions	5 X Z	– 10 r	viarks	)	L1	2M
	b	State the f			eerin	o arm	and T	Tie rod						L1 L1	2M
	c	What is h				5 unin	und i	re rou.						L1	2M
	d	List the tra			0									L1	2M
	e	Define we												L1	2M
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					(A	Answei	r all F	Five Ur	nits 5 x	x 10 =	= 50 M	larks)			
								UN	I-TIV						
2	a Discuss about differential unit with neat diagram.										L6	5M			
	<b>b</b> Explain sliding mesh gearbox.								L1	5M					
								(	OR						
3													30 cm and inne		10N
													in the contac		
											iction	is 0.3	, determine th	e	
	po	wer transm	itted b	y clute	h ope	rating	at 20	-	1						
								UN	IT-II						
4	a	Explain di												L1	5M
	b	Explain al	oout ca	amber a	angle,	, caste	r angl							L1	5M
_		<b>F</b> 1 ·	1		1		C		OR ·						
5	a	Explain ac		-		-	, <b>*</b>	ver stee	ering s	ysten	n with	neat c	liagram.	L5	5M
	b	Distinguis	sn betv	veen cr	uten a	and bra	ake.	TIN		7				L4	5M
			1 1						IT-III						
6	a	Distinguis							contr	ol sys	stem.			L4	5M
	b	Explain di	ran co	ntrol sy	stem	with	neat s		0D					L1	5M
7		Explain A	DDC	in data	;1				OR					15	<u>CM</u>
′	a b	Explain A Explain th				work	ing o	fthroo	noint	linko	a ma	ohonic	m	L5	6M
	b	Explain u		suuctio	ni and	WUIK	ing 0.	and the second se			ge me	enams		L2	<b>4</b> M
0		Disting	h h	1	14	1.000	1 DT		IT-IV	]				т.	(B.=
8	a	Distinguis What are t			-	•			1.14-1			.0		L4	6M 4M
	b	what are 1	ne adv	vantage	s of t	nree-r	oint	IINKAGE	hitch	1n a 1	ractor	/		I.1	

**b** What are the advantages of three-point linkage hitch in a tractor? L1 **4M** 

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<b>D10</b>
KIX
<b>IVIO</b>

**5M** 

**5M** 

L1

## OR

- 9 a In detail explain the methods of determining the C.G measurement of tractor
  - **b** Determine drawbar pull of a track type tractor with 35 cm wide and 160 cm long **L6** track. The weight of tractor is 3500 kg. The lugs on the wheel are such that the soil issheared off in a plane area at the ends of lugs and the soil parameters are: C = 14 KPa,  $\emptyset = 300$ , Kc = 3, K $\emptyset = 0.5$  and n = 0.2

## UNIT-V

10	a	Explain the different types of tractor test in detail	L1	5M
	b	Illustrate in detail the tractor operation safety precautions	L2	5M
		OR		
11	a	Distinguish between chassis less tractor and tractor with chassi	L4	<b>5M</b>
	b	What are the different types of tyre? Explain them	L1	<b>5M</b>

\*\*\*END\*\*\*