Seat No: _____ Enrolment No: ____

PARUL UNIVERSITY COLLEGE OF AGRICULTURE

B.Sc.,(Hons.) Agriculture Summer 2017 - 18 Examination

Semester: 3 Date: 07/06/2018

Subject Code: 20106201 Time: 02:00 pm to 04:30 pm

Instructions 1. All questions are compulsory. 2. Figures to the right indicate full marks. 3. Make suitable assumptions wherever necessary. 4. Start new question on new page. Q.1 Do as Directed. A. Fill in the blanks. (Each of 1.00 marks) (10) 1. Nozzle is a Part of	•	Jame: Farm Power and Machinery		Total Marks: 60
1. All questions are compulsory. 2. Figures to the right indicate full marks. 3. Make suitable assumptions wherever necessary. 4. Start new question on new page. Q.1 Do as Directed. A. Fill in the blanks. (Each of 1.00 marks) 1. Nozzle is a Part of		<u> </u>		1 000 1.202 1200 00
2. Figures to the right indicate full marks. 3. Make suitable assumptions wherever necessary. 4. Start new question on new page. Q.1 Do as Directed. A. Fill in the blanks. (Each of 1.00 marks) 1. Nozzle is a Part of				
4. Start new question on new page. Q.1 Do as Directed. A. Fill in the blanks, (Each of 1.00 marks) 1. Nozzle is a Part of. 2. Width of cut measuring unit is	_	- · ·		
Q.1 Do as Directed. A. Fill in the blanks. (Each of 1.00 marks) (10)	3. Make s	uitable assumptions wherever necessary.		
A. Fill in the blanks. (Each of 1.00 marks) 1. Nozzle is a Part of		· · ·		
1. Nozzle is a Part of 2. Width of cut measuring unit is	Q.1 Do	as Directed.		
2. Width of cut measuring unit is				(10)
3. PTO full name is	1.	Nozzle is a Part of		
4. M.B plough full name is	2.			
5. Gunner is a part of	3.	PTO full name is		
6. SI engine full form is	4.	M.B plough full name is		
7. Solar energy is a	5.	Gunner is a part of plough	h.	
8. Power available from a farm labour is	6.	SI engine full form isig	gnition.	
9. In a diesel engine fuel is ignited by	7.	Solar energy is a energy	y.	
10. Crankshaft is used to	8.	Power available from a farm labour is		
B. Multiple choice type questions. (Each of 1.00 mark) 1. In Disc plough Tilt angle is	9.	In a diesel engine fuel is ignited by		
1. In Disc plough Tilt angle is	10	. Crankshaft is used to		
a) 15-25° b) 35-45° c) 25-35° d) 45-55° 2. M.B Plough is used for	B. M	ultiple choice type questions. (Each of 1.00 n	nark)	(10)
b) 35-45° 2. M.B Plough is used for	1.	In Disc plough Tilt angle is		
2. M.B Plough is used for		a) 15-25°	c) 25-35°	
a) Primary tillage c) Both b) Secondary tillage d) None 3. Disc Plough is used for		b) 35-45°	d) 45-55°	
b) Secondary tillage d) None 3. Disc Plough is used for	2.	M.B Plough is used for		
3. Disc Plough is used for		a) Primary tillage	c) Both	
a) Primary tillage c) Both b) Secondary tillage d) None 4. Sprayer is used for		b) Secondary tillage	d) None	
b) Secondary tillage d) None 4. Sprayer is used for	3.	Disc Plough is used for		
4. Sprayer is used for		a) Primary tillage	c) Both	
a) Primary tillage b) Secondary tillage d) None 5. In Disc plough disc diameter is		b) Secondary tillage	d) None	
b) Secondary tillage d) None 5. In Disc plough disc diameter is	4.	Sprayer is used for		
b) Secondary tillage d) None 5. In Disc plough disc diameter is		a) Primary tillage	c) Plant protection	
a) 10-30		b) Secondary tillage	d) None	
b) 30-50 d) 100-150 6. Compression ratio for SI engine is	5.	In Disc plough disc diameter iscm		
6. Compression ratio for SI engine is		a) 10-30	c) 60-90	
6. Compression ratio for SI engine is		b) 30-50	d) 100-150	
a) 1-4 c)6-10 b) 16-20 d) None 7. Compression ratio for CI engine is	6.	Compression ratio for SI engine is	••••	
b) 16-20 d) None 7. Compression ratio for CI engine is				
7. Compression ratio for CI engine is			· · ·	
a) 1-4 b) 16-20 d) None 8. The mixing of air fuel in case of SI engine takes place in a) Carburettor b) Inlet Manifold d) None 9. Petrol is also known as a) CNG c) Both	7.	Compression ratio for CI engine is	*	
b)16-20 d) None 8. The mixing of air fuel in case of SI engine takes place in		-		
8. The mixing of air fuel in case of SI engine takes place in			,	
a) Carburettor c) Both b) Inlet Manifold d) None 9. Petrol is also known as	8.	•		
b) Inlet Manifold d) None 9. Petrol is also known as		-	-	
9. Petrol is also known as		·	,	
a) CNG c) Both	9	•	, · · · · · · ·	
	· ·		c) Both	
2, 2 5			·	
10. Pumps use Power.	10	•	,	

c) Electrical

d) None

a) Human

b) Mechanical

Q.2	Do	as Directed.	
A	. De	fine the following. (Any five)	(05)
	1.	Primary tillage.	
	2.	Secondary tillage.	
	3.	Objective of tillage.	
	4.	Function of M.B plough.	
	5.	Harvesting.	
	6.	Cylinder bore.	
	7.	Function of carburettor.	
В	.An	swer the following. (Any Five)	(05)
	1.	Enlist the sequence of farm operation	
	2.	Write any two names of primary tillage implements.	
	3.	Enlist the components of M.B. plough.	
	4.	Enlist the components of Disc plough.	
	5.	Enlist different sources of farm power.	
	6.	Enlist different types of lubrication system used in engine.	
	7.	Enlist different types of cooling system used in engine.	
Q.3 Write short notes. (Any five)		rite short notes. (Any five)	(15)
	1.	Seed drill.	
	2.	Cultivator.	
	3.	Rotary tiller.	
	4.	Cooling system.	
	5.	Mechanical farm power.	
	6.	Lubrication system.	
Q.4	At	tempt any Three/Long Questions/Example	(15)
	1.	M.B. Plough.	
	2.	Disc Plough.	
	3.	Differentiate SI and CI engine.	
	4.	Differentiate renewable and non renewable energy source.	