Enrollment No: _____ Seat No: ___

PARUL UNIVERSITY

COLLEGE OF AGRICULTURE

B.Sc. (Hons.) Agriculture Winter-2019-20 Examination

Semester: 5 Date: 20/11/2019

Subject Code: 20104301 Time: 10:30 am to 01:00pm

Subject Name: Crop pests and stored grain pests and their management **Total Marks: 60**

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In	STI	rm	cti	n	ns

- All questions are compulsory.
 Figures to the right indicate full marks.
- 3. Make suitable assumptions wherever necessary.
- 4. Start new question on new page.

\mathbf{q} .1	Do as	Directed
	T7:11 :	4ha blaml

.1 Do as Directed.		
A. Fill in the blanks. (Each of 1.00 marks)		(10)
1.Rice weevil classified under	category.	
2is the voracious	and most destructive pest of cereals.	
3is the minute s	tored grain insect pest.	
4 is the dama	ging stage of pulse beetle.	
5. Tungro and yellow dwarf disease of rice tr		
6is the scientific n	ame of case worm	
7 parasitizes larvae of	Corcyra cephalonica.	
8 is the scient 9and	tific name of cigarette beetle.	
9and	pests are cotton strainers.	
10tablets of Aluminum phos		(4.0)
B. Multiple choice type questions. (Each of 1.0		(10)
1. Grassy stunt virus disease transmit by	c) Brown plant hopper	
a) Green leaf hopper	c) Brown plant nopper	
b) White backed plant hopper		
2. Damaging stage of Indian meal mothis		
a) Larvae	c) Adult	
b) Pupae3. Fumigants used for stored grain pests	d) None of above	
	c) Both a and b	
a) Aluminium phosphideb) Ethylene Dibromide	d) Zinc Phosphide	
4. Scientific name of Brinjal fruit and shoot b	*	
a)Eublemma olivacea	c) Epilachna duodecastigma	
b) Leucinodes orbonalis	d)Amrasca biguttula	
5. Notching of leaf margins by adults of		
a) Hadda beetle	c) Stone weevil	
b) Ash weevil	d) Gundhi bug	
6. New emerging invasive pest recently report		
a) Spodoptera frugiperda	c) Spodoptera litura	
b) Spodoptera exigua	c) Spodoptera liturad) None of above	
7. Scientific name of Red rust flour beetle is_	,	
a)Rhyzopertha dominica	c) Trogoderma granarium	
b)Tribolium castaneum	c) Trogoderma granarium d) Lasioderma serricorne	
	of a tubelike gall that is similar to "onion leaf" or	
"Silver-shoot".	<u> </u>	
a) Nymphula depunctalis	c)Pelopidas mathias	
b) Orseolia oryzae	d) Scirpophaga incertulas	
9. Pigeon pea sterility mosaic virus disease tra	insmits by	
a) Aphid	c) Whitefly	
b) Eriophid mite	d) Jassid	
10. Scientific name of Painted bug is		
a)Bagrada hilaris	c) Pelopidas mathias	
b) Psalis pennatula	d) Hieroglyphus banian	

A.	Define the following. (Any five)	(05)
	1.Hopper burn	
	2.Pest resurgence	
	3.Earthing up	
	4.Hot spot	
	5.Secondary pests	
	6.Internal feeders	
	7.Ratooning	
B	Answer the following. (Any Five)	(05)
	1. Difference between rice moth and rice weevil	
	2. Difference between primary pests and secondary pests	
	3. Give any five secondary stored grain pests names.	
	4. Advantages and disadvantages of earthen pots	
	5. Give names of three monophagous pests of cereal crops	
	6. Difference between dry grain heating and wet grain heating	
	7. Any tworeference books of crop pests and stored grain pests and their management	
Q.3	Write short notes. (Anyfive)	(15)
	1. Nature of damage of rice yellow stem borer and castor capsule borer	
	2. Nature of damage of Indian mean moth and Angoumois grain moth	
	3. Nature of damage of mustard sawfly and coconut rhinoceros beetle	
	4. Nature of damage of cotton pink bollworm and spotted boll worm	
	5. Factors affecting stored grain insect damage	
	6. Traditional storage structures	
Q.4	Attempt any Three/Long Questions/Example	(15)
	1. Management/ control measures of stored grain pests.	
	2. State practicable components of Integrated Pest Management of important pests of rice and coconut.	
	3. State practicable components of Integrated Pest Management of important pests of cotton and	

Q.2 Do as Directed.