



Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009)

Koni, Bilaspur - 495009 (C.G.)

2.6.1 Provide question papers mapped with COs and BTL during the year 2024-25

END SEMESTER EXAMINATION, 2024-25
AEC (UG 5th SEMESTER)
RURAL TECHNOLOGY AND SOCIAL DEVELOPMENT SET-1 Paper: RTUETA3 (Lac and Honey Production) Time Allowed: Three hours Note: Attempt questions of all two sections as directed. Distribution of marks is given with sections. SECTION - A What is the primary purpose of using a smoker in beekeeping? (CO-3, BTL-2)
 a) To cool down the beehive temperature b) To stun the bees temporarily (Objective Type Questions) c) To mask the alarm pheromones released by bees d) To increase honey production Which species of bees is most commonly used in apiculture? (CO-4, BTL-1)
a) Bumblebees (*Bombus* spp.) b) Mason bees (*Osmia* spp.) c) European honey bees (*Apis mellifera*) d) Carpenter bees (*Xylocop*a spp.)

Which season is usually the peak time for honey production in temperate regions? (CO-3, BTL-1) Which season is usually the peak time for honey production in temperate regions? (CO-3, BTL-1)

a) Spring b) Summer c) Autumn d) Winter

The dance language used by honeybees to communicate the location of food sources is known as:

a) Trophallaxis b) Waggle dance c) Round dance d) Tremble dance (CO-4, BTL-2)

Which of the following factors is a significant threat to honeybee populations worldwide? (CO-3, BTL-2)

a) Habitat destruction b) Pesticide exposure c) Climate change d) All of the above

The Laccifer lacca insect secret lac resin and processed resin is also known as: (CO-1, BTL-3)

a) Shellac b) Sheath c) Shade d) Reson

The Laccifer lacca species insect belogns to phylum: (CO-1, BTL-1)

a) Mollusca b) Arthropoda c) Porifera d) Nematoda

The process where the lac insects are introduced to the new host plant is called as: (CO-2, BTL-3)

a) Inoculation b) Parasitism c) Pathogen d) None of them a) Inoculation b) Parasitism c) Pathogen d) None of them

when the scraping of lac occurs after swarming then the obtained lac is called as: (CO-2, BTL-3)

Sight lac, d) Physician. a) Mature harvesting b) Immature harvesting c) Stick lac d) Phunki lac
 10. Which disease affects bee brood and is caused by the fungal pathogen Ascosphaera apis? (CO-3, BTL-3)
 a) Chalkbrood b) Nosema disease c) American foulbrood d) European foulbrood SECTION - B (Long answer type questions) (10X5=50) Note: Attempt any five questions from this section. Each question carries equal 10 marks Discuss the benefits of beckeeping along with the marketing potential of bee products. (CO-3, BTL-1)
 Discuss the scope and importance of lac cultivation. (CO-1, BTL-1) Discuss about the significant species of honey bee in apiculture. (CO-3, BTL-1-) Write a note on castes of bees in honey bee. (CO-3, BTL-2)

- 5. Write an account on the life history of lac insect. (CO-1, BTL-3)

 6. Discuss different types of bee hives along with their advantages and specifications. (CO-4, BTL-4)

 7. Write a note on important host plant for lac cultivation (CO-1, BTL-3)
- Write a note on important host plant for lac cultivation (CO-3, BTL-3)

End Semester Examination, 2024-2025 B. Sc. (Third Semester) RURAL TECHNOLOGY & SOCIAL DEVELOPMENT Paper: RTUCMJT1

10X 2=20

(Sericulture)

Time Allowed: Three hours

Max. Marks= 70

Note: Attempt questions of all two sections as directed. Distribution of marks is given with sections.

Section -A

(Objective Type Questions)

Note: Section A is compulsory. Each question carries 2 marks.

1. Multiple choice questions (attempt all) 1. In an age laying of Bombyx mori, the number of eggs are (CO-2, BTL-1)

(a) 200-300 (b) 400-500 (c) 400-600 (d) 500-700

2. Tasar silk worm is feed on (CO-1, BTL-1)

(a) Mulberry leaf (b) Neem leaf (c) Sal leaf (d) Castor leaf

3. The silkworm spin cocoon after? (CO-2, BTL-2)

(a) 4th moult (b) 3rd moult (c) Either a or b (d) 2nd moult

4. Which is the young age silkworm? (CO-1, BTL-1)

(a) Pupa (b) Adult (c) Spinning worms (d) Chawki

5. Which of the following silk is mainly produced in Assam? (CO-1, BTL-1)

(a) Arundi silk (b) Natural silk (c) Muga silk (d) Tassar silk

(CO-2, BTL-2)

many pairs of glands? (CO-2, BTL-2) Cocoon is formed by how

(a) Two (b) Three (c) Four (d) One

7. The central silk board was established in ? (CO-1, BTL-2)

(a) 1946 (b) 1947 (c) 1948 (d) 1959

8. In the word voltine stands for ? (CO-3, BTL-3)

(a) Brood frequency (b) Cocoon frequency (c) Worm frequency (d) Silk frequency

9. What is stifling? (CO-4, BTL-3)

(a)Spinning process of cocoon (b) Killing process of pupa inside the cocoon (c) Feeding process of caterpillar (d) None of the above.

10. What is the process of degumming? (CO-5, BTL-3)

(a) Boiling of silk cocoon (b) Use of chemical agents (c). Sun drying of cocoon (d) All of the above

Section-B

 $(10 \times 5 = 50)$ Long answer type questions

Note: Attempt any five questions from this section. Each question carries equal 10 marks.

1. Describe the life cycle of silk insect including moulting and metamorphosis. (CO-2, BTL-2)

2. What do you mean by ideal rearing house? Write the features and advantages of an ideal rearing house in sericulture. (CO-4, BTL-3)

3. What is mountage? Classify the different types of mountages. (CO-5, BTL-3)

4. Describe the major diseases of silkworm. (CO-3, BTL-4)

5. Explain the young and late stage rearing. (CO-3, BTL-3)

6. Give an account on government schemes and programme related to sericulture. (CO-1, BTL-3)

7. Write a note on stifling of cocoon. (CO-5, BTL-3)

B.Sc (Hon's) (Fifth Semester) Examination ,2024

Land surveying Levelling and Drawing techniques

Rural Technology (GURU GHASIDAS VISHVIDYALAYA)

Time = 3hrs

Total: Marks=70

Multiple choice questions

(2X 10=20)

Q.1. The fixed point whose elevation is known is called- BTL-1, CO -3

(a) Benchmark (b) Forsight (c) Back sight (d) none

Q.2. In surveying well conditioned triangle will be ----angle BTL-1, CO-1 (a) acute (b) right (c) both(d) None

Q.3. The line joining the two main stations is known as BTL-1, CO-1

(a) Main (b) Check (c) Tie (d) None

Q.4. The purpose of tie line is to ----- BTL-1, CO-1

(a) check accuracy (b) show interior (c)both (d) none Q.5 For less than 250 km following survey ---- is taken in account BTL-1, CO-3

(a) plane (b) geodatic (c) both (d) none

Q.6 chain Survey is suitable for---- area BTL-1, CO-2

(a) Big (b) Small (c) Both (d) None

Q.7 Five arrow means ----- chain BTL-1, CO -2

(a) Five (b) One (c) Both (d) none

Q.8 For settlement of land revenue type of map is used are BTL-1, CO-3

(a) Topographic (b) cadastral (c) both (d) none

Q. 9 1 hectare = ---- acre BTL-1, CO-2

(a) 2.471 (b) 3.971 (c) both (d) none

Q.10 Length of Guntur chain is BTL-1, CO -3

(a) 66ft (b) 33ft (c) both (d) none

Long answer type questions (Any-5) (5v10=50)

Long answer type questions (Any-5) (5x10-50)	
Q.1. Define Levelling .Explain the process of Levelling in detail with its implication in rural development.	BTL-1, CO -3
Q.2 Classify the types of RangingWhy there is need of ranging explain its importance in rural development	BTL-2, CO3
Q.3 Mention the radiation method of Plane table and limitations of plane table survey.	BTL-1, CO2
Q.4 Briefly describe about instrument used in Chain survey	BTL-1, CO2
Q.5 Write a note on instrument needed for Plane Table Survey	BTL-3, CO2
Q.6 Write short note on Drawing sheet and its layout	BTL-3, CO3
Q.7 Discuss different type of surveying in detail Explain its importance in Rural Development.	BTL-2, CO 3

Department of Rural Technology & Social Development Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

End Semester Examination, 2024

M.Sc. (Rural Technology) - III Semester Course name: Beekeeping Techniques Paper Code: - RTPCTG1 Maximum Marks: 70

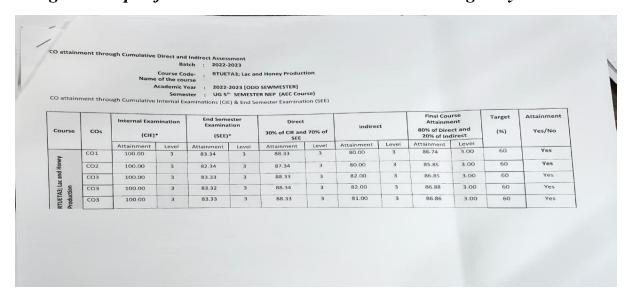
10x2=20

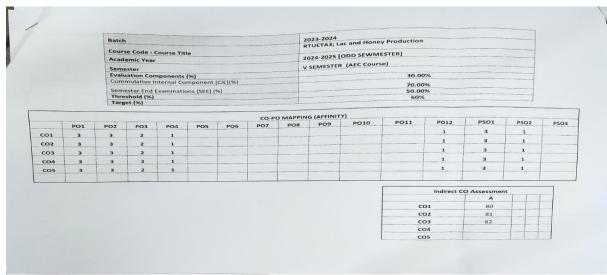
Duration: 3 Hours

A. (Objective type Questions)

	Note - Attempt all question, all qu	uestion carry 2 marks	10x2=20
1	How do bees contribute to crop farm	ing? [CO-1, BTL1-, Marks-2]	
	a) Producing wax	b) Building hives	
	c) Pollination	d) Producing honey	
2		predator of honeybees? [CO-2, BTL2-, Marks-2]	
	a) Birds	b) Ants	
	c) Miters	d) All of the above	
3	What is the primary food of bee larva		
	a) Pollen	b) Nectar	_
	c) Honey	d) Royal Jelly 🗸	
4	Which of the following is a hive pro-	oduct other than honey? [CO-1, BTL2-, Marks-2]	
	a) Milk	b) Cotton	
	c) Silk	d) Wax	1
5	What substances do bees collect to a	make honey? [CO-1, BTL1-, Marks-2]	
	a) Nectar	b) Pollen	
	c) Resin	d) Propolis	
6	. How many wings does a honeybee h	nave? [CO-2, BTL2-, Marks-2]	
	a) 6	-b) 8	
	c) 2	d) 4 🗸	
7		ating with the queen? [CO-1, BTL1-, Marks-2]	
	a) Drone	b) Worker bee	
	c) Forager	d) Guard bee	
8	. Which of the following is a bee spe	cies commonly used in commercial beekeeping? [CO-2, BTI	.1-, Marks-2]
	a) Apis mellifera	b) Apis dorsata	
	c) Apis cerana	d) All of the above	
9	. What is the primary product obtain	ed from the beekeeping? [CO-1, BTL2-, Marks-2]	
	a) Wax	b) Milk	
	c) Honey	d) Silk	
1	0. What is the primary function of th	e queen bee in a hive? [CO-2, BTL2-, Marks-2]	
	a) Lay eggs	b) Collect nectar	
	c) Guard the hive	d) Build the comb	
	The second second	The state of the s	中華 施工品
1	3. Long type questions (Attempt a Q1. Describe the bee breeding and re	aring of queen bees in brief. [CO-2, BTL2-, Marks-10]	10=50
	Discuss on grading, packaging a	nd marketing of bee products. [CO-2, BTL2-, Marks-10]	
	0)		-1, BTL2-, Marks
	Explain the importance of flora	in apiculture. [CO-1, BTL2-, Marks-10]	

2.6.2 Provide documents related to attainment of Programme outcomes, Programme specific outcomes and course outcomes during the year 2024-25





		Lac and Honey Production; RTUETA3 Class	
	Details	Lac and Froncy 1 and 36	
	Number of Students Registered:	36	
	Number of Students Attended:	00	
	Number of Students Failed:	100	
	Pass Percentage:	87 out of 100	
	Maximum Mark:	53 out of 100	
	Minimum Mark:	73 .83	
	Average Mark: ices implemented report in course delivery and assess		
2. It is necessary to VI) Actions to be tal	ten: are problems in the Class.		
VI) Actions to be tal 1. Add more pract 2. Additional session 3. Question paper	ten: toe problems in the Class. toe problems in the Class. to see the with higher BTL OD: tor is requested to implement the above suggestions w orte	nen the course is offered in the upcoming semester (2024-25)	

attainment through Cumulative Direct and Indirect Assessment Batch : 2022-2023

Course Course

Academic Year : 2022-2023 (ODD SEWMESTER)
UG 5th SEMESTER NEP (Major
Semester : Course
ugh Cumulative Internal Examinations (CIE) & End Semester Examination (SEE)

o attainii	nent tino	Internal Exam		End Seme Examina	End Semester Examination		Direct 30% of CIE and 70% of			Attainme 80% of Dire 20% of Inc	ent ct and	Target (%)	Yes/No Yes
	cos	(CIE)		(SEE)*		SEE		Assement Level		Attainment	Level	40	
Course	COS	(CIE)			Level	Attainment	Level	Attainment	3	86.67	3.00	60	103
		Attainment	Level	Attainment	Level	88.33	3	80.00	3			60	Yes
		100.00	3	83.33	33.33	00.55		80.00	3	85.89	3.00	60	
	CO1	100.00			3 3	87.33	3	80.00	-		3.00	60	Yes
an a	-	100.00	3	82.31	3		3	81.00	3	86.88	3.00		Yes
措	CO2	100.00		83.33	3	88.33	88.33	1	-	86.88	3.00	60	162
eri	CO3	100.00	3	83.55		88.33	3	81.00	3	80.00		- 50	Yes
1,5	COS		3	83.33	3	80.33			3	86.87	3.00	60	1
5	CO3	100.00			3	88.33	3	81.00			1	1	
RTUCMJT1; Sericulture	CO3	100.00	3	83.33			1	1	1				

Batch	2023-2024
Course Code - Course Title	RTUCMJT1; Sericulture
Academic Year	2024-2025 [ODD SEWMESTER]
Semester	III SEMESTER (Major Course)
Evaluation Components (%)	
Cummulative Internal Component [CIE](%)	30.00%
Semester End Examinations [SEE] (%)	70.00%
Threshold (%)	50.00%
Target (%)	60%

							CO-PC	MAPPIN	G (AFFINIT	Y)			_		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO
CO1	3	3	2	1								1	3	1	
CO2	3	3	2	1								1	3	1	
соз	3	3	2	1								1	3	1	
CO4	3	3	3	1								1	3	1	
COS	3	3	2	1								1	3	1	

Indirect	CO Assessment	
	A	
CO1	80	
CO2	81	
соз	82	
CO4		
COS		

se Feedback from Students (Class Committee Meeting)
rew topics were handled in a fast pace.

III) Result Analysis

	Details	Sericulture; RTUCMJT1 Class
	Number of Students Registered:	
	Number of Students Attended:	65
	Number of Students Failed:	65
	Pass Percentage:	00
	Maximum Mark:	100
	Minimum Mark:	87 out of 100
	Average Mark:	53 out of 100
V) Innovative pract	ices implemented report in course delivery and assessment base	73 .83
ICT based teachi	ng learning adopted	on previous course completion report.
. Flip mode of lea	ning used	
 Individual discus 	sion followed	
Observations:		
L. All COs are attai	ned.	
. It is necessary to	improve the programming skills of students.	
/I) Actions to be tak	en:	
	ce problems in the Class.	
 Add more practi 	ns for weak students (only for program—)	
 Add more practi Additional session 	ons for weak students (only for programming)	
 Add more practi Additional session Question papers 	ons for weak students (only for programming) to be taken with higher BTL	
Add more practic. Additional session. Question papers (II) Remarks from H L. The course men	ons for weak students (only for programming) to be taken with higher BTL OD: or is requested to implement the above suggestions when the co	rurse is offered in the upcoming semester (2024-25)
 Add more practi Additional session Question papers Remarks from H 	ons for weak students (only for programming) to be taken with higher BTL OD: cor is requested to implement the above suggestions when the co	urse is offered in the upcoming semester (2024-25)

- Course Syllabus
 End Semester Question Paper

O attainment through Cumulative Direct and Indirect Assessment

Batch : 2022-2023

Course CodeName of the course

Academic Year : 2022-2023 [ODD SEWMESTER]

Semester : B.Sc. V Semester

CO attainment through Cumulative Internal Examinations (CIE) & End Semester Examination (SEE)

Course	cos	Internal Exam		End Seme Examinat	tion	30% of CIE and SEE		Indire	ct	Final Cou Attainm 80% of Dire 20% of Inc	ent ect and	Target (%)	Attainmen Yes/No
		Attainment	Level	Attainment	Level	Attainment	Level	Attainment	Level	Attainment	Level		
3 00	CO1	100.00	3	83.33	3	88.33	3	80.00	3	86.78	3.00	60	Yes
Drawing Drawing ucs	CO2	100.00	3	82.33	3	87.34	3	80.00	3	85.82	3.00	60	Yes
and Dra	CO3	100.00	3	83.31	3	88.33	3	82.00	3	86.82	3.00	60	Yes
Techn Techn	CO3	100.00	3	83.32	3	88.32	3	82.00	3	86.84	3.00	60	Yes
RTUETCL; I Leveling Tec	CO3	100.00	3	83.31	3	88.32	3	81.00	3	86,84	3.00	60	Yes
œ												The same	

Batch	2022-2023
Course Code - Course Title	RTUETC1, Land Surveying Leveling and Drawing Techniques
Academic Year	2024-2025 [ODD SEWMESTER]
Semester	B.Sc. V Semester
Evaluation Components (%)	
Cummulative Internal Component [CIE](%)	30.00%
Semester End Examinations [SEE] (%)	70.00%
Threshold (%)	50.00%
Target (%)	60%

							CO-PC	MAPPIN	G (AFFINIT	Y)		-			
	PO1	PO2	PO3	PO4	PO5	P06	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	P5O2	PSO:
CO1	3	3	2	1								1	3	1	
CO2	3	3	2	1								1	3	1	
соз	3	3	2	1								1	3	1	
CO4	3	3	3	1								1	3	1	
COS	3	3	2	1								1	3	1	

Indirect	CO Assessment	
	A	
CO1	80	
CO2	81	
соз	82	
CO4		
COS		

Course Feedback from Students (Class Committee Meeting) Few topics were handled in a fast pace.

III) Result Analysis

Details	RTUETC1, Land Surveying Leveling and Drawing Techniques
Number of Students Registered:	43
Number of Students Attended:	43
Number of Students Failed:	00
Pass Percentage:	100
Maximum Mark:	87 out of 100
Minimum Mark:	53 out of 100
Average Mark:	73 .83

Dr. Alka Mishra

Name and Signature of Course Faculty
Enclosure:

1) Course Syllabus
2) End Semester Question Paper

Program	Year of Admission	Course Code		
M.Sc. Rural Technology	2024-25	RTPCTG2 (Beekeeping Techniques)		

M.Sc. Rural Technology Name of the Program/Branch Curriculum Year 2024-2025 Course Code with Name RTPCTG2 (Beekeeping Techniques) Third Semester Dr. Lokesh Kumar Tinde Faculty handling the course: Section A:

Course COs		Internal Examination (CIE)*		End Semester Examination (SEE)*		Direct 30% of CIE and 70% of SEE		Indirect		Final Course Attainment 80% of Direct and 20% of Indirect		Target	Attainment Yes/No
		Attainment	Level	Attainment	Level	Attainment	Level	Attainment	Level	Attainment	Level		15 140 5
SP, SING	COI	100.00	3	100.00	3	100.00	3	82.00	3	96.40	3.00	60	Yes
RTPCTG2, BEIEKEEPING TECHNIQUES	CO2	- 75,00	э	100:00	3	92.50	3	83.50	3	90.70	3.00	60	Yes

Suitable Weightages for CIE and SEE shall be assigned for Theory; Assignment and Internal assessment of the Course

- II) Course Feedback from Students (Class Committee Meeting)
 1. Few topics were handled in a fast pace.
 III) Result Analysis

Details	M.Sc. (RT) I SEM.		
Number of Students Registered:	02		
Number of Students Attended:	02		
Number of Students Failed:	0		
Pass Percentage:	100 53 out of 70		
Maximum Mark:			
Minimum Mark:	50 out of 70		
Average Mark:	51		

- IV) Innovative practices implemented report in course delivery and assessment based on previous course completion report.
- ICT based teaching learning adopted
 Flip mode of learning used
 Individual discussion followed
 Observations:

- All COs are attained.
 It is necessary to improve the programming skills of students.
- VI) Actions to be taken:
- Add more practice problems in the Class.
 Additional sessions for weak students (only for programming)
 Question papers to be taken with higher BTL

VII) Remarks from HOD:

1. The course mentor is requested to implement the above suggestions when the course is offered in the upcoming semester (2024-25)

Name and Signature of Course Faculty

Dr. Lokesh Kumar Tinde

Enclosure:

- Course Syllabus
 End Semester Question Paper