

Daffodil International University
Department of Business Administration

Midterm Examination, Spring 2025

Course Code: 0231-111

Course Title: Communicative English

Semester: Spring 2025	Examination: Midterm examination
Time: 1.5 Hours	Full Marks: 25
Section: 68 (A-D)	Teachers' Initial: FA, JFH

1. Change the tense of the following sentences as mentioned in the brackets. (CLO 1, Level 1) 5x1=5

- i. The manager approves the project. (Past Continuous)
- ii. She had been practicing the speech for two hours. (Future Indefinite)
- iii. We will complete the assignment by next Monday. (Present Perfect Continuous)
- iv. They do not understand the problem. (Past Perfect)
- v. When did she submit the report? (Future Perfect)

2. Change the following statements as mentioned in the brackets. (CLO 2, Level 2) 5x1=5

- i. I sincerely apologize for the delay in responding to your email. (Informal)
- ii. Huh? Can you say that again? (Formal)
- iii. I'm afraid that might not be the most effective solution. (Informal)
- iv. Please do not hesitate to contact me. (Informal)
- v. I've got other plans, so I can't come. (Formal)

3. Read the passages below and answer Question 3. (i-x) that follows. (CLO 3, Level 3) 10x1=10

Bats to the rescue: How Madagascar's bats are helping to save the rainforest

There are few places in the world where relations between agriculture and conservation are more strained. Madagascar's forests are being converted to agricultural land at a rate of one percent every year. Much of this destruction is fuelled by the cultivation of the country's main staple crop: rice. And a key reason for this destruction is that insect pests are destroying vast quantities of what is grown by local subsistence farmers, leading them to clear forest to create new paddy fields. The result is devastating habitat and biodiversity loss on the island, but not all species are suffering. In fact, some of the island's insectivorous bats are currently thriving and this has important implications for farmers and conservationists alike.

Enter University of Cambridge zoologist Ricardo Rocha. He's passionate about conservation, and bats. More specifically, he's interested in how bats are responding to human activity and deforestation in particular. Rocha's new study shows that several species of bats are giving Madagascar's rice farmers a vital pest control service by feasting on plagues of insects. And this, he believes, can ease the financial pressure on farmers to turn forest into fields.

Bats comprise roughly one-fifth of all mammal species in Madagascar and thirty-six recorded bat species are native to the island, making it one of the most important regions for conservation of this animal group anywhere in the world.

Co-leading an international team of scientists, Rocha found that several species of indigenous bats are taking advantage of habitat modification to hunt insects swarming above the country's rice fields. They include the Malagasy mouse-eared bat, Major's long-fingered bat, the Malagasy white-bellied free-tailed bat and Peters' wrinkle-lipped bat.

‘These winner species are providing a valuable free service to Madagascar as biological pest suppressors,’ says Rocha. ‘We found that six species of bat are preying on rice pests, including the paddy swarming caterpillar and grass webworm. The damage which these insects cause puts the island’s farmers under huge financial pressure and that encourages deforestation.’

The study, now published in the journal *Agriculture, Ecosystems and Environment*, set out to investigate the feeding activity of insectivorous bats in the farmland bordering the Ranomafana National Park in the southeast of the country.

Rocha and his team used state-of-the-art ultrasonic recorders to record over a thousand bat ‘feeling buzzes’ (echolocation sequences used by bats to target their prey) at 54 sites, in order to identify the favourite feeding spots of the bats. The next used DNA barcoding techniques to analyse droppings collected from bats at the different sites.

The recordings revealed that bat activity over rice fields was much higher than it was in continuous forest – seven times higher over rice fields which were on flat ground, and sixteen times higher over fields on the sides of hills – leaving no doubt that the animals are preferentially foraging in these man-made ecosystems. The researchers suggest that the bats favour these fields because lack of water and nutrient run-off make these crops more susceptible to insect pest infestations. DNA analysis showed that all six species of bat had fed on economically important insect pests. While the findings indicated that rice farming benefits most from the bats, the scientists also found indications that the bats were consuming pests of other crops, including the black twig borer (which infests coffee plants), the sugarcane cicada, the macadamia nut-borer, and the sober tabby (a pest of citrus fruits).

The effectiveness of bats as pest controllers has already been proven in the USA and Catalonia,’ said co-author James Kemp, from the University of Lisbon. ‘But our study is the first to show this happening in Madagascar, where the stakes for both farmers and conservationists are so high.’

Local people may have a further reason to be grateful to their bats. While the animal is often associated with spreading disease, Rocha and his team found evidence that Malagasy bats feed not just on crop pests but also on mosquitoes – carriers of malaria, Rift Valley fever virus and elephantiasis – as well as blackflies, which spread river blindness.

Rocha points out that the relationship is complicated. When food is scarce, bats become a crucial source of protein for local people. Even the children will hunt them. And as well as roosting in trees, the bats sometimes roost in buildings, but are not welcomed there because they make them unclean. At the same time, however, they are associated with sacred caves and the ancestors, so they can be viewed as beings between worlds, which makes them very significant in the culture of the people. And one potential problem is that while these bats are benefiting from farming, at the same time deforestation is reducing the places where they can roost, which could have long-term effects on their numbers. Rocha says, ‘With the right help, we hope that farmers can promote this mutually beneficial relationship by installing bat houses.’

Rocha and his colleagues believe that maximising bat populations can help to boost crop yields and promote sustainable livelihoods. The team is now calling for further research to quantify this contribution. ‘I’m very optimistic,’ says Rocha. ‘If we give nature a hand, we can speed up the process of regeneration.’

3. (i -v) Find out whether the given statements are True/False/Not Given

N.B. It is unnecessary to write down the correct statement if the information is false.

- i. Many Madagascan forests are being destroyed by attacks from insects.
- ii. Loss of habitat has badly affected insectivorous bats in Madagascar.
- iii. Ricardo Rocha has carried out studies of bats in different parts of the world.
- iv. Habitat modification has resulted in indigenous bats in Madagascar becoming useful to farmers.
- v. The Malagasy mouse-eared bat is more common than other indigenous bat species in Madagascar.

(vi-x) Complete the table below.

Choose **ONE WORD ONLY** from the passage for each answer.

Write your answers in boxes i-v on your answer sheet.

The study carried out by Rocha’s team

Aim	to investigate the feeding habits of bats in farmland near the Ranomafana National Park
Method	➤ ultrasonic recording to identify favourite feeding spots ➤ DNA analysis of bat vi)
Findings	➤ the bats • were most active in rice fields located on hills • ate pests of rice, vii), sugarcane, nuts and fruit • prevent the spread of disease by eating viii) and blackflies ➤ local attitudes to bats are mixed: – they provide food rich in ix) – the buildings where they roost become x)

4. Suppose, you are a student at Daffodil International University, and due to financial constraints (or any other valid reason), you are unable to pay your semester fees on time. Write a formal application to the Accounts Office requesting an extension of the semester fee payment deadline. In your application, clearly state the reason for the delay, specify the proposed deadline by which you can make the payment, and assure the University of your commitment to completing the payment within the extended time. You may also request guidance on any necessary formalities or additional documents required. Your application should be between 150-200 words and should follow the standard format of a formal letter. **(CLO 4, Level 6)**

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