

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2077 Chaitra

Exam.	Regular		
Level	BE	Full Marks	80
Programme	BEX, BCT	Pass Marks	32
Year / Part	IV / II	Time	3 hrs.

Subject: - Agile Software Development (*Elective II*) (CT76502)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt All questions.
- ✓ The figures in the margin indicate Full Marks.
- ✓ Assume suitable data if necessary.

1. Explain about Spiral Model with its pros and cons. List down the limitations of traditional software development approaches. [4+4]
2. Why we need Agile Methodologies in software development? What are the values of Agile Manifesto? Explain. [4+4]
3. What is story point? Explain some of the popular agile estimation methods for user stories. [2+6]
4. What is sprint retrospective? How to prioritize and select user stories with the customer? [3+5]
5. What is spike? How the user stories are broken into tasks? Explain with example. [2+6]
6. What is TDD? How to use TDD in agile software project? Explain with example. [2+6]
7. What is acceptance testing? How to write acceptance criteria in UAT? Describe with example. [2+6]
8. Explain about the release planning and iteration planning. [4+4]
9. What is collective code ownership? Explain about the pair programming in Agile. [4+4]
10. Write short notes on: (Any two) [2×4]
 - a) Product backlog
 - b) Refactoring
 - c) Team roles in XP

25 A TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2075 Bhadra

Exam.	Regular		
Level	BE	Full Marks	80
Programme	BCT	Pass Marks	32
Year / Part	IV / II	Time	3 hrs.

Subject: - Agile Software Development (Elective II) (CT76502)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
 - ✓ Attempt **All** questions.
 - ✓ **All** questions carry equal marks.
 - ✓ Assume suitable data if necessary.
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1. Why is agility important in software projects ? Explain the responsibility to change over following plan.
 2. How is requirement collected in agile development also explain grooming session.
 3. What are the different ways of taking feedback in agile project?
 4. What is regression Testing? How is it different from smoke testing?
 5. Explain how collaboration is managed in agile projects?
 6. Explain some good agile coding practice.
 7. Explain refactoring and its importance.
 8. How is time estimate done in agile projects? Explain "fixed price are broken promises".
 9. What are the roles and responsibility in agile methodology, explain in brief.
 10. Write short notes on:
 - a) Timebox
 - b) 80-20 theory



35 A TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2073 Bhadra

Exam.	Regular		
Level	BE	Full Marks	80
Programme	BEX, BCT	Pass Marks	32
Year / Part	IV / II	Time	3 hrs.

Subject: - Agile Software Development (*Elective II*) (CT76502)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
 - ✓ Attempt All questions.
 - ✓ All questions carry equal marks.
 - ✓ Assume suitable data if necessary.
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1. Differentiate between waterfall model and serial model. What are the limitations of traditional approaches compared with Agile methodologies?
 2. Explain the variants of Agile methodology.
 3. What is the User story and acceptance criteria, with example at least 2 complete user stories.
 4. Explain the Agile coding process with example.
 5. Explain the adapting Agile to fit development methodology in Agile project management.
 6. Write a code to divide two numbers with Unit Test.
 7. Explain with example of optimizing the test driven development.
 8. Explain collective code ownership and its importance with example.
 9. What is pair programming? What are the Core Principle and Practices used in Agile?
 10. Write short notes on:
 - a) Agile Manifesto
 - b) Test Suites

45A TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2072 Ashwin

Exam.	Regular		
Level	BE	Full Marks	80
Programme	BEX, BCT	Pass Marks	32
Year / Part	IV / II	Time	3 hrs.

Subject: - Agile Software Development (*Elective II*) (CT76502)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt **All** questions.
- ✓ The figures in the margin indicate **Full Marks**.
- ✓ Assume suitable data if necessary.

1. Explain the limitation of traditional approaches compared to agile methodologies. [7]
2. What do you mean by agile manifesto? What are the needs and objectives of it? [7]
3. How time estimation is done in agile projects? Explain the planning game with suitable example. [12]
4. Explain some good agile coding practices with examples. [7]
5. What is integrated unit testing? Explain with an example code block. [11]
6. What do you mean by refactoring? Explain it with suitable examples. [11]
7. Explain roles and responsibilities in the agile projects with suitable example. [7]
8. What is a pair programming? Explain how user stories are prepared for Xp projects. [9]
9. Explain collective code ownership and its importance. [9]

Exam.	New Back (2066 & Later Batch)		
Level	BE	Full Marks	80
Programme	BEX, BCT	Pass Marks	32
Year / Part	IV / II	Time	3 hrs.

Subject: - Agile Software Development (*Elective II*) (CT76502)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt All questions.
- ✓ All questions carry equal marks.
- ✓ Assume suitable data if necessary.

1. Describe the evolution of agile methodology? Give its advantages in the modern age software development.
2. What are the meetings conducted in agile, explain in brief?
3. What are the different ways of taking feedback in agile project?
4. What is acceptance testing? How is it different from unit testing?
5. Explain how collaboration is managed in agile projects?
6. How is test driven development achieved, explain with example.
7. What is refactoring? Explain with its importance.
8. How is time estimation done in agile projects? Justify "fixed price are broken promises".
9. What is XP? Explain how user stories are prepared for XP projects.
10. Write short notes on:
 - a) Roles and responsibilities in agile
 - b) Spiral Model

35C TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2071 Bhadra

Exam.	Regular / Back		
Level	BE	Full Marks	80
Programme	BEX, BCT	Pass Marks	32
Year / Part	IV / II	Time	3 hrs.

Subject: - Agile Methodologies (Elective II) (CT76502)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt All questions.
- ✓ All questions carry equal marks.
- ✓ Assume suitable data if necessary.

1. What are the possible problems with waterfall model? Is it mandatory to implement SDLC methods while developing any type of software project?
2. What is Agile Manifesto? Explain its values and principles.
3. Explain in detail about the planning game used for estimation in agile.
4. What is the difference between Epic, User Stories and Tasks? Who should create user stories and tasks?
5. Distinguish between user tests and unit tests with suitable example.
6. What do you understand by code refactoring and how is it accomplished. Explain with example.
7. What is Continuous Integration and why it is important for Agile? What are the software/tools available for the same?
8. Explain core principles and practices of extreme programming.
9. What are the roles and responsibilities in Agile (XP).
10. Write short notes on:
 - a) Release Planning
 - b) Unit Testing
