1. Identify the odd one about requirement.
   A. SRS
   B. Functional Specification
   C. Requirement Validation
   D. Requirement Definition
   E. B & C

2. A well-structured process model with deliverables from each phase is:
   A. Spiral
   B. Waterfall
   C. Structured evolutionary prototyping
   D. Prototyping
   E. None

3. Which of the following is an element of review checklists:
   A. Traceability
   B. Consistency
   C. Completeness
   D. Understandability
   E. All

4. Which one of the following stakeholder has the largest role in requirement elicitation and management?
   A. System developers
   B. System Analyst
   C. Business Analyst
   D. Client Manger
   E. B & C

5. Conducting an intergroup coordination is started at CMM level of
   A. Initial
   B. Repeatable
   C. Defined
   D. Optimizing
   E. Managed

6. Large and complex projects are best managed by one of the following models
   A. Structured evolutionary prototyping
   B. Waterfall
   C. Spiral
   D. Prototyping
   E. All

7. Percentage of target dependent statements are the features of a non-functional requirement:
   A. Reliability
   B. Robustness
   C. Portability
   D. Security
   E. Ease of use

8. A requirement can't be changed due to the following point:
   A. Cost
   B. Schedule
   C. customer priorities
   D. Policy
   E. None

9. One of the following can't be a factor for change request rejection:
   A. Organizational Change
   B. Long time to accommodate change
   C. Invalidity
   D. Cost
   E. All

10. Identify the one which is not a problem if used in writing a requirement document:
    A. Conditional clauses
    B. Equations

C. Using specific idea

D. All

E. None

11. Which one of the following statement is not true?

A. Requirements-design traceability links requirements with specific hardw[...] software components in the system which is used to implement the requir[...]

B. Requirements-sources traceability links the requirement and the people o[...] documents which specified the requirement.

C. Requirements-requirements traceability links requirements with the sub-sy[...] where these requirements are implemented.

D. Requirements-interface traceability links requirements with the interfaces of external systems which are used in the provision of the requirements.

E. All

12. Change management policies may cover

A. The change request process and the information required to process each change request.

B. The process used to analyze the impact and costs of change and the associated traceability information.

C. A & B

D. The membership of the body which formally considers change requests.

E. All

13. Which one is correct about requirements Validation?

A. Validation works with raw requirements as elicited from the system stakeholders.

B. "Have we got the right requirements" is the key question to be answered at validation stage.

C. Validation works with a final draft of the requirements document.

D. All

E. None of the above

14. Requirement change request is rejected

A. If the change request is valid.

B. If the change request results in consequential changes which are unacceptable to the user.

C. If the cost of implementing the change is too low.

D. All

E. None of the above

15. Choose the correct Requirements review process.

A. Plan review - Distribute documents - Prepare for review - Hold review meeting - Follow-up actions - Revise document

B. Plan review - Prepare for review - Distribute documents - Hold review meeting - Follow-up actions - Revise document

C. Plan review - Distribute documents - Prepare for review - Hold review meeting - Revise document - Follow-up actions

D. Plan review - Prepare for review - Distribute documents - Hold review meeting - Revise document - Follow-up actions

E. None of the above

16. The requirements document desc[...]

A. The services and functions [...]

B. The constraints under wh[...]

C. Information about the a[...]

D. All

E. None of the above

17. In Elicitation process [...] to find out

A. about the ap[...]

B. what servi[...]

C. the requi[...]

D. A&C

E. All

18. Whic[...]

A. [...]

B[...]

2

16. The requirements document describes:
   A. The services and functions which the system should provide.
   B. The constraints under which the system must operate.
   C. Information about the application domain of the system
   D. All
   E. None of the above

17. In Elicitation process, software engineers work with customers and system end-users to find out
   A. about the application domain
   B. what services the system should provide
   C. the required performance of the system
   D. A&C
   E. All

18. Which one is common Interviewing mistake?
   A. Interviewing stakeholders in small groups
   B. Assuming that stated needs can be incorrect
   C. Trying to convince stakeholders that you are smart
   D. A &B
   E. All

19. Which one of the following specific questions helps us to elicit functional requirements?
   A. What will the system do?
   B. Are there several modes of operations?
   C. What kinds of computations or data transformations must be performed?
   D. B&C
   E. All

20. If the requirement "Students will be able to enroll to undergraduate and post graduate courses" is analyzed and separated into two requirements :
   - Students will be able to enroll to undergraduate courses.
   - Students will be able to enroll to post graduate courses.

   The new requirements are?
   A. Atomic   D. All
   B. Uniquely identified.   E. None of the above
   C. Prioritized

21. Which of the following is not the source of requirement?
   A. End users   D. Existing system
   B. Documents   E. None
   C. Customers

22. Non-functional requirements are concerned with _____ while functional requirements are concerned with _____.
   A. Product properties and product   C. Product features and product
      features   properties
   B. User's expectation and user   D. A and B
      requirement   E. B and C

3

23. _____ is a development lifecycle designed to give a faster develop and higher quality results.
A. Spiral quadrant model
B. Waterfall model
C. RAD
D. Structured evolutionary prototyping
E. None

24. _____ is the process of deriving the system requirements through observation of existing systems, discussions with potential users and customers, and task analysis.
A. Requirement elicitation
B. Requirement specification
C. Requirement gathering
D. A and C
E. All

25. Which of the following is not an elicitation stage?
A. Understand background
B. Collect requirements
C. Objective setting
D. Business modeling
E. Organize knowledge
F. All

26. _____ use the requirement document to understand the system being developed.
A. System engineers
B. Project managers
C. System customers
D. System test engineers
E. System maintenance engineers
F. End users

27. Which of the following cannot be considered as a review checklist?
A. Organization
B. Consistency
C. Traceability
D. Redundancy
E. Conformance to standards
F. None

28. Which of the following is a change analysis and costing process in change management?
A. Change request validity
B. Assess cost of change
C. Propose requirement changes
D. Implement changes
E. All except A
F. All except D

29. A requirement is traceable if you can trace
A. Why the requirement exists
B. Who suggested it
C. The requirements related to it
D. How the requirement relates to the design and implementation
E. All
F. None

30. _____ spends some time observing people at work and building up a picture of how work is done.
A. System developer
B. System test engineer
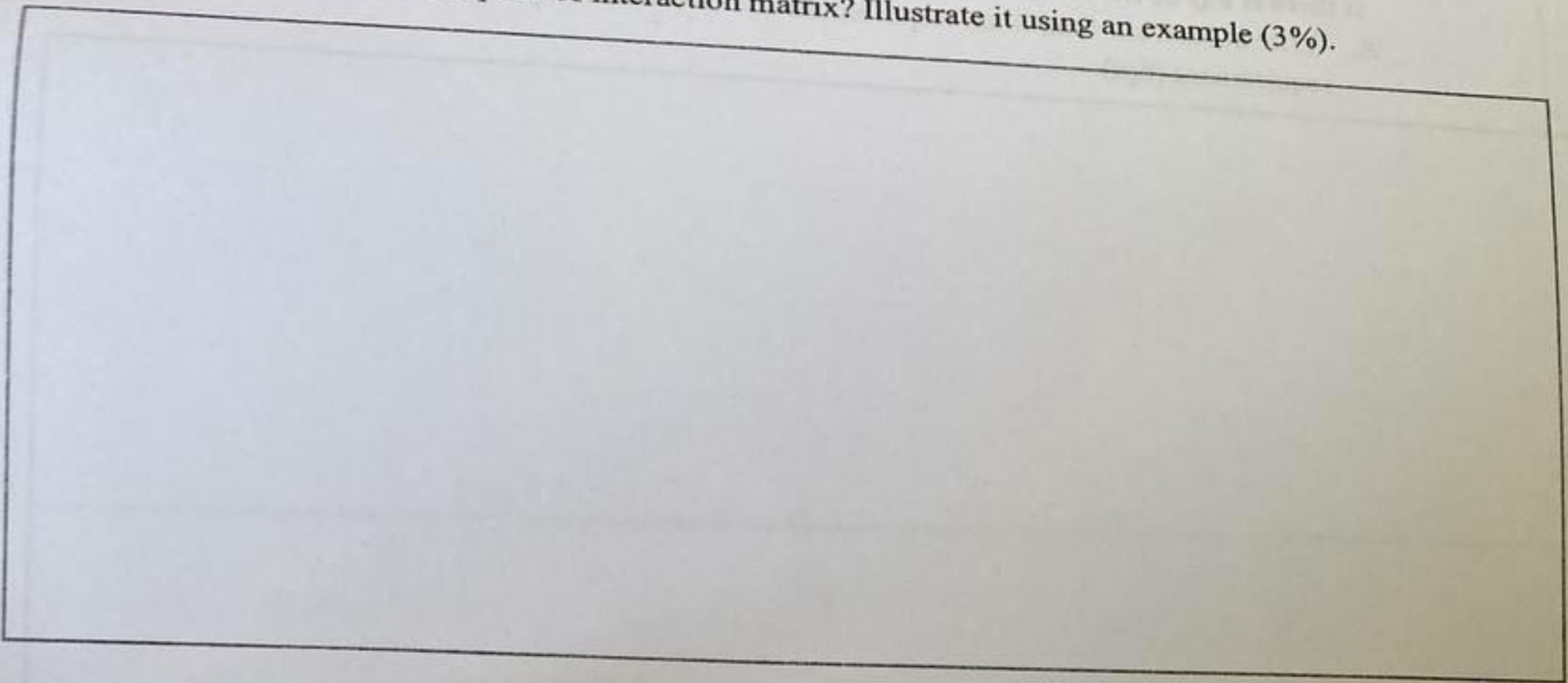C. Ethnographer
D. System maintenance engineer
E. All

Answer Sheet for the multiple choice questions

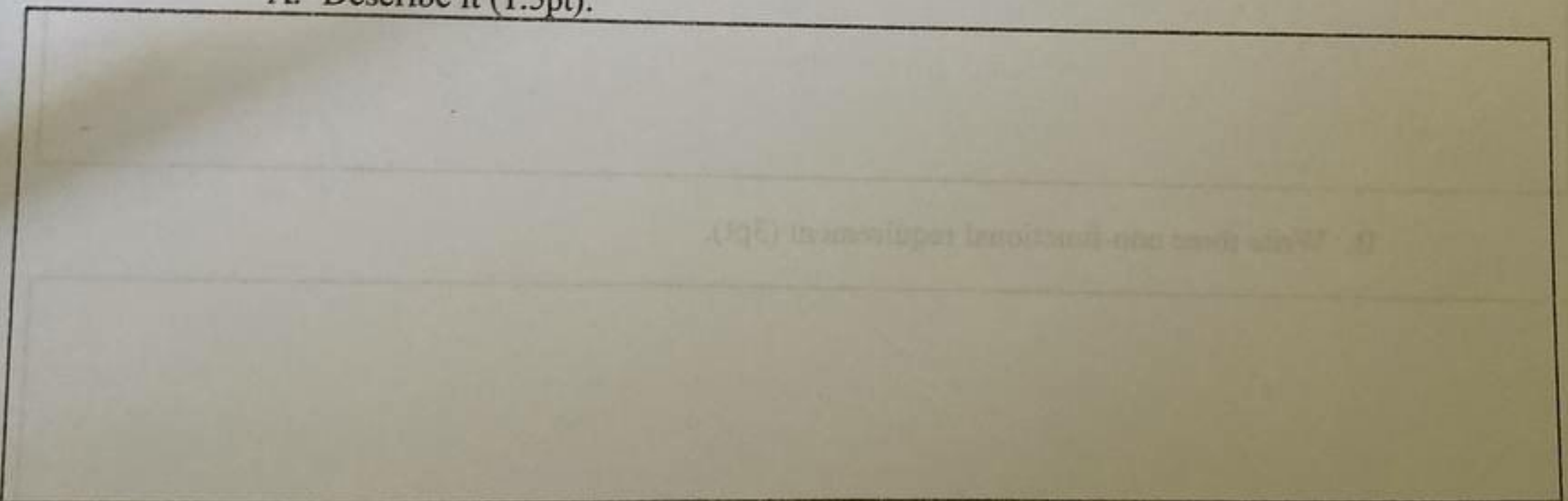| 1. ___	2. ___	3. ___	4. ___	5. ___	6. ___	7. ___	8. ___	9. ___	10. ___
11. ___	12. ___	13. ___	14. ___	15. ___	16. ___	17. ___	18. ___	19. ___	20. ___
21. ___	22. ___	23. ___	24. ___	25. ___	26. ___	27. ___	28. ___	29. ___	30. ___

4

Part II – Write and Explain (20%): Write your answer briefly and neatly.

1. What is the purpose of interaction matrix? Illustrate it using an example (3%).
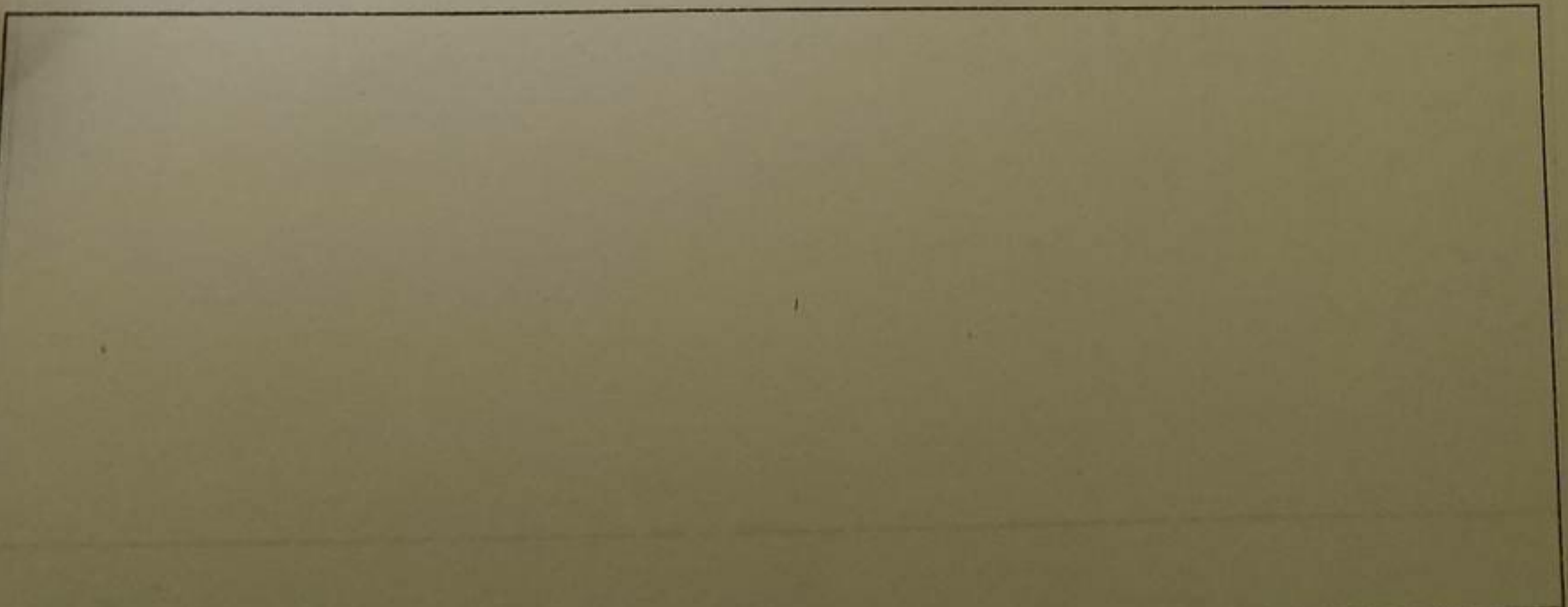
2. Consider requirement review (4pt).
   A. Describe it (1.5pt).

   B. Discuss the process involved (2.5pt).

3. Consider an airline reservation system that allows you to book a flight, see your trips, check-in, check flight status and flight schedule, track and trace your baggage and check if there is any covid-19 update. (13pts)

   A. Write at least six functional requirement and describe the process of each requirement (6pt).

B. Write three non-functional requirement (3pt).

C. Figure out the actors in the process and describe their task (4pt).

I Post Software Engineering Files For My 'Buchiach'es, Sorry! I Meant
Brilliants.

Tik Tok: https://www.tiktok.com/@dagmawiabate?lang=en
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