



DEPARTMENT OF COMPUTER SCIENCE  
&  
INFORMATION TECHNOLOGY  
UNIVERSITY OF BALOCHISTAN, QUETTA

Class: BS(IT) 4<sup>th</sup> semester (Morning)

(MID TERM)

Total Time: 40 Minutes

Course: Software Engineering

Total Marks: 18

NOTE: Attempt all questions.

SUBJECTIVE

Q#2: What is the difference between learnability and understandability as a product attributes of a software? (3)

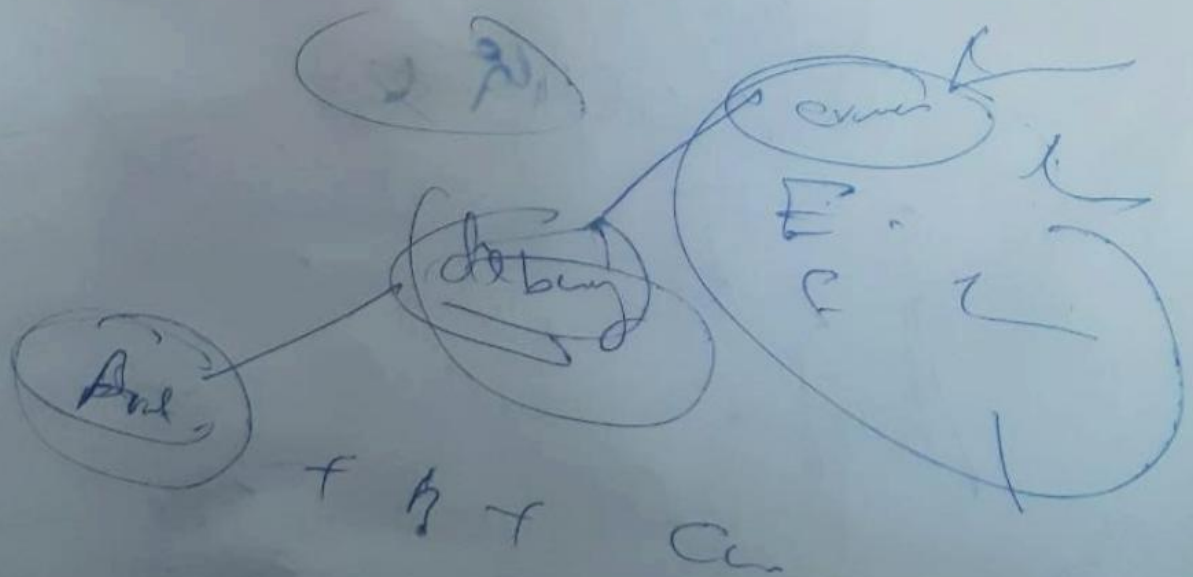
Q#3: Why process model is used to develop a software? (3)

Q#4: What is the difference between open world computing and open source software? (3)

Q#5: Why dependability is one of the major attributes of critical systems? (3)

Q#6: What does the term "method" refers to in layered technology? (3)

Q#7: Which process model is implemented while developing a 2D shooting game? Support your answer with reason. (3)





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Class: BS(IT) 4<sup>th</sup> Semester (Morning)  
"PRINCIPLES OF SOFTWARE ENGINEERING"

Time: 1 hour  
Max Marks: 30

NOTE: Attempt all questions.

Q#1: Short questions and answers. (Any 4)

(12)

- What does the quality control refers to?
- Differentiate between generic and customized product.
- What does the term "methods" refers to in layered technology?
- Explain the software myth that refers to unnecessary documentation and what is its reality?
- Reason on the statement that software engineering is different from computer science.
- How process is related to product?
- What are the drawbacks of waterfall model?

Q#2: You are hired to develop a website "urduin.com". This website translate any English word in Urdu.

- Choose, explain and draw a process model you think is relevant to this product. Complement your answer with reason that why chosen process model is better.
- List and explain any 2 quality attributes you think would supplement your product.

Q#3(a): "Software does not wear out but it does deteriorates", explain the concept with the help of diagram in detail.

(6)

OR

Q#3(b): What are the different factors involved in dependability. Explain each of them in detail.

(6)

reliable  
dependable  
Reliable

H.



&  
**INFORMATION TECHNOLOGY  
UNIVERSITY OF BALOCHISTAN, QUETTA**

Class: BS(CS), 6<sup>th</sup> semester (Morning) (MID TERM)

Total Time: 40 Minutes

Course: Introduction to Software Engg

Total Marks: 18

NOTE: Attempt any three questions.

**SUBJECTIVE**

**Q#2:** Suppose you are developing an android application "Quranic Ways". This application contains Qibla compass, prayers timing, Quranic recitations, Tajweed and Islamic date with converter.

- i. Choose, explain and draw a process model you think is relevant to this product. Complement your answer with reason that why chosen process model is better. (8)
- ii. List and explain any 4 product quality attributes you think would supplement your product. (4)

**Q#3:** "Software does not wear out but it does deteriorates", explain the concept with the help of diagram in detail. (6)





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Class: BSCS 6TH Semester  
"SOFTWARE ENGINEERING "

Time: 90 mint  
Max Marks: 40

Note: Attempt all questions.

Question No 1: Short Questions and Answers

*any nine*

1. What is the duration of a scrum sprint? —
2. What do you understand by Daily Stand-Up? —
3. Value of Simplicity in extreme programming. —
4. What are the main team in the scrum? —
5. what is agile development? —
6. what are the benefit of feedback? —
7. Time box —
8. Test driven development —
9. agile manifesto —
10. SRS —
11. feasibility study —

*12  
7  
19*

Question No 2: What are the principles of Agile Software Development? (7)

Question No 3: What is the difference between Traditional and Agile model? (7)

Question No 4: Briefly explain Requirement Elicitation Techniques. What are the various ways to discover requirements (explain any four) (7)

*Qn Extreme programming practices.*

*40  
21  
19*

*19*





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Class: BS(IT) 3<sup>rd</sup> semester (Morning) (Mid and Terminal)  
Course: Principles of Software Engineering

Total Time: 90 Minutes  
Total Marks: 70

Q#1: Short questions and answers. (10\*3=30)

- What is meant by the term "tools" in layered technology?
- Draw a diagram for parallel process flow.
- What is the difference between robustness and resilience as a product quality attributes?
- What is the basic difference between spiral and incremental model?
- Why risk management is an umbrella activity?
- What is the difference between functional and non-functional requirements?
- Why debugging is so much difficult?
- What is the role of quality planning in software quality management?
- What is the importance of validation in software quality?
- What are the drawbacks of V model?

Focus on this

Right Product

Product & right

Q#2: You are hired to develop a website "explorebeauty.com". This website activates tourism in Baluchistan by highlighting tourist attractions and good hotels and its charges in town. (20)

- Choose, explain and draw a process model you think is relevant to this product. Complement your answer with reason that why chosen process model is better. (8)
- List and explain any 4 quality attributes you think would supplement your product. (3)
- Name the testing techniques applied to check the quality of the software? (4)
- Write down the scope of this software by drawing use cases. (5)

Q#3(a): What is a critical system? Explain different types of critical systems in detail. (6)

Heavy Cost

Q#3(b): What is the difference between iterative and evolutionary process flow? Draw diagram to explain. (4)

↻

Sequential

Q#4 (a): How process metrics helps to improve the software quality? (4)

many baseline

Q#4 (b): Explain the phases of personal software process? (6)