



UNIVERSITY OF THE PUNJAB

Fourth Semester - 2018

Examination: B.S. 4 Years Programme

Roll No.

PAPER: Software Engineering
Course Code: IT-206 / IT-22406 Part – II

TIME ALLOWED: 2 Hrs. & 45 Mints.
MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

Question #: 2 Short Questions (4x5=20)

Each question is of 4 marks

- 1:
Define 'Software' and "Software Engineering"?
- 2:
Name the 4 Ps of Project Management?
- 3:
Explain the unit of 'Effort'?
- 4:
Define "transactional flow" with respect to "architectural design"?
- 5:
Differentiate "Black Box Testing" and "White Box Testing"?

Question #: 3 Subjective Questions (10x3=30)

Each question is of 10 marks

- 1:
Why "Data Flow Diagram" is used for "Functional Modeling"? Explain the procedure to draw the diagram?
- 2:
Define 'Risk'? How "Risk Analysis is conducted"?
- 3:
Explain the concepts of 'coupling' and 'cohesion' by taking relevant examples?



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PAPER: Software Engineering

TIME ALLOWED: 15 Mints.

Course Code: IT-206 / IT-22406 Part – I (Compulsory)

MAX. MARKS: 10

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Each MCQ carries 1 Mark. This Paper will be collected back after expiry of time limit mentioned above.

Question #: 1

(1x10=10)

1. Linear Sequential Model is suitable when?
 - A. Requirements are clear
 - B. Frequent changes are there
 - C. Time is less
 - D. Resources are short
2. Sequence/arrangement of steps to achieve a particular goal is known as:
 - A. Software Process
 - B. Process
 - C. Software Engineering
 - D. Both 'A' and 'B'
3. A software must have:
 - A. Instructions to do the task
 - B. Data structures
 - C. Documentations
 - D. All of the above
4. "Line of Code" based estimation is heavenly dependent on _____.
 - A. Historical Data
 - B. Technology
 - C. Management Skills
 - D. None of above
5. The main objective of "Critical Path Method (CPM) analysis" is _____.
 - A. To make project schedule
 - B. To identify slack (float) time of project activities
 - C. To identify critical path
 - D. To allocate resources
6. Which one of the following is not part of "Structured Analysis Model"?
 - A. Functional Model
 - B. Data Model
 - C. Data Design
 - D. Behavioral Model
7. Which of the following is not true about component-level design
 - A. It enables transformation of design model into operational software
 - B. It occurs when data, architectural, and interface designs have been established
 - C. It has the high degree of software design abstraction.
 - D. It establishes the algorithmic detail required to manipulate data structures
8. Which one of the following shows the identification of data structures in structured design?
 - A. Data Design
 - B. Architectural Design
 - C. User Interface Design
 - D. Component Design
9. Which one of the following is not a "golden rule of user interface design"?
 - A. "Place the user in control"
 - B. "Reduce the user's memory load"
 - C. "Make the interface consistent"
 - D. None of the above
10. Testing can show the absence and as well as the presence of errors.
 - A. True
 - B. False



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Fourth Semester 2015
Examination: B.S. 4 Years Programme

PAPER: Software Engineering
Course Code: IT-206 /

TIME ALLOWED: 30 mins.
MAX. MARKS: 10

Attempt this Paper on this Question Sheet only.

Objective Type Questions (Total Marks 10)

Choose the right option:

1. Waterfall model is not suitable for?
 - a. Small Projects
 - b. Complex Projects
 - c. Accommodating changes
 - d. None of the above

2. Software Engineering aims at developing?
 - a. Reliable software
 - b. Cost effective software
 - c. Both 'a' and 'b'
 - d. None of the above

3. White box testing, a software testing technique is sometimes called?
 - a. Basic path
 - b. Graph testing
 - c. Loop testing
 - d. Glass box testing

4. Black box testing, a software testing technique is sometimes called?
 - a. Data flow testing
 - b. Loop testing
 - c. Behavioral Testing
 - d. Graph based testing

5. In object oriented design of software, objects have?
 - a. Attributes and names only
 - b. Operations and names only
 - c. Attributes, name, and operations
 - d. None of the above

6. Which of the following is a tool in design phase?
 - a. Abstraction
 - b. Refinement
 - c. Information hiding
 - d. There is no such activity

7. Which one of the following is not type of maintenance?
 - a. Correction
 - b. Adaptation
 - c. Enhancement
 - d. testing

8. Which type of requirements is generally stated by customer?
 - a. Non Functional Requirements
 - b. Functional Requirements
 - c. Both 'a' and 'b'
 - d. None of the above

9. In data flow diagram, it is possible that a process has an input but there is no output.
 - a. True
 - b. False

10. For architectural design, main input comes from?
 - a. Entity Relationship Diagram
 - b. State Transition Diagram
 - c. Data Flow Diagram
 - d. All of the above



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MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

Short Questions (Marks 20)

Each question is of 4 marks

Question # 1:

“Software does not wear out but it can deteriorate”. Explain with example?

Question # 2:

Why does “Line of code based estimation” heavily dependent on historical data?

Question # 3:

Explain “requirement validation” with respect to “requirement engineering” by taking relevant example?

Question # 4:

Differentiate “Event” and “action” with respect to “state transition diagram”?

Question # 5:

Define “Software Quality Assurance”?

Subjective Questions (Marks 30)

Each question is of 10 marks

Question # 1:

Write down the procedure to draw a complete “Data Flow Diagram” by taking an example?

Question # 2:

Explain cohesion and coupling by taking relevant examples?

Question # 3:

Explain “user interface design” process by taking relevant example?



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TIME ALLOWED: 30 mins.
MAX. MARKS: 10

Attempt this Paper on this Question Sheet only.

Objective Type Questions (Total Marks 10)

Choose the right option:

- Linear Sequential Model is suitable when?
A. Requirements are clear
B. Frequent changes are there
C. Time is less
D. Resources are short
- Adaptation of "Software Engineering: As layered technology" is known as:
A. Software Process
B. Software Process Model
C. Software Engineering
D. Both 'A' and 'B'
- There is no difference between a project and an operation.
A. True
B. False
- Which one of the following is not a 'P' of Project Management?
A. People
B. Process
C. Power
D. Project
- The duration of an activity for which if it is delayed, there will be no effect on deadline is known as:
A. Free time
B. Independent time
C. Slack or Float time
D. All of the above
- "A customer has to purchase many items from point of sale system". It is shown by:
A. Cardinality
B. Modality
C. Both A and B
D. None of the above
- The main input for architectural design from analysis model is _____.
A. State Transition Diagram
B. Data Flow Diagram
C. Entity Relationship Diagram
D. All of the above
- An external entity can interact with a data store directly.
A. True
B. False
- "Program Design Language" is a method to develop _____.
A. Data Design
B. Architectural Design
C. Component Level Design
D. All of the above
- Testing is done by destructive approach and development is done by constructive approach.
A. True
B. False



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Short Questions (Marks 20)

Each question is of 4 marks

- Question # 1:
Differentiate "Software Process" and "Software Engineering"?
- Question # 2:
Differentiate 'Manager' and 'Leader'?
- Question # 3:
Differentiate 'Entity' and "External Entity" with an example?
- Question # 4:
Differentiate 'event' and 'action'?
- Question # 5:
Differentiate "Exhaustive Testing" and "Selective Testing"?

Subjective Questions (Marks 30)

Each question is of 10 marks

- Question # 1:
What do you understand by "Project Scope"? Explain it by taking relevant example?
- Question # 2:
Name and explain elements/constructs/symbols for "Flow Chart"?
- Question # 3:
Differentiate "White Box Testing" and "Black Box Testing"? Explain at least one technique for each?

End of Question Paper



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Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Short Questions (Marks 20)

Each question is of 4 marks

Question #2:

“Software does not wear out”. Explain it.

Question #3:

Differentiate ‘metric’ and ‘measure’?

Question #4:

Explain “data store” with respect to “Data Flow Diagram”?

Question #5:

Differentiate ‘modality’ and ‘cardinality’?

Question #6:

Differentiate “exhaustive testing” and “selective testing”?

Subjective Questions (Marks 30)

Each question is of 10 marks

Question #7:

Define and explain “software development life cycle”?

Question #8:

Explain “transactional flow” and “transform flow” with respect to “Data Flow Diagram”?

Question #9:

Define “Test Case”? Explain any one format to write it with example?



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Time: 15 Min. Marks: 10

Roll No. in Fig.

Roll No. in Words.

Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Which process model is appropriate for the development of commercial software?
A. Water Fall Model
B. Incremental Model
C. Spiral Model
D. Prototyping Model
2. Software does not wear out.
A. True
B. False
3. Which one of the following is not part of a software?
A. Data Structure
B. Documentation
C. Instructions
D. None of the above
4. The success of a project lies only on 'customer'.
A. True
B. False
5. Total Slack is always more than Free Slack.
A. True
B. False
6. State Transition Diagram is part of:
A. Functional Model
B. Behavioral Model
C. Data Model
D. None of the above
7. External Entities are identified in _____.
A. Entity Relation Diagram
B. Data Flow Diagram
C. State Transition Diagram
D. All of the above
8. 'Actions' identified in "State Transition Diagram" are the processes identified in "Data Flow Diagram".
A. True
B. False
9. A developer of a software can be the tester of same software.
A. True
B. False
10. The minimum cyclomatic complexity of a piece of code can be zero.
A. True
B. False



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Subjective Questions (Marks 30)

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