Subject Code:- AMICSE0703

Roll. No:

(An Autonomous Institute Affiliated to AKTU, Lucknow)
M.Tech. (Integrated)
SEM: VII - THEORY EXAMINATION (2024 - 2025)
Subject: Software Project Management

Time: 3 Hours

Max. Marks: 100

General Instructions:

IMP: *Verify that you have received the question paper with the correct course, code, branch etc.*
1. This Question paper comprises of three Sections -A, B, & C. It consists of Multiple Choice Questions (MCQ's) & Subjective type questions.
2. Maximum marks for each question are indicated on right -hand side of each question.
3. Illustrate your answers with neat sketches wherever necessary.
4. Assume suitable data if necessary.
5. Preferably, write the answers in sequential order.
6. No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.

SECTION-A

20

1. Attempt all parts:-

1-a. Quality planning is the process of developing a quality plan for_____.(CO1,K1) 1

(a) customers

(b) project manager

(c) team

(d) project

1-b. The successful project management is all about.(CO1,K2) 1

(a) structure

(b) control

(c) continuously driving action

(d) all of the above

1-c. Software project estimation can never be an exact science, but a combination of good historical data and systematic techniques can improve estimation accuracy.(CO2,K1) 1

(a) Yes

(b) No

(c) May be

(d) none

1-d. In Project management when does planning take place?(CO2,K1) 1

  (a)   Before the project

  (b)   During the project execution

  (c)   At the start of the project

  (d)   After the project

1-e.   An effective risk management plan will need to address which of the following issues?(CO3,K2)   1

  (a)   risk avoidance

  (b)   risk monitoring

  (c)   contingency planning

  (d)   all of the above

1-f.   Software risk always involves two characteristics.(CO3,K2)   1

  (a)   fire fighting and crisis management

  (b)   known and unknown risks

  (c)   uncertainty and loss

  (d)   staffing and budget

1-g.   Every task that is scheduled should be assigned to a specific team member is termed as.(CO4,K1)   1

  (a)   Compartmentalization

  (b)   Defined milestones

  (c)   Defined responsibilities

  (d)   Defined outcomes

1-h.   The project planner examines the statement of scope and extracts all important software functions which is known as(CO4,K2)   1

  (a)   Association

  (b)   Decomposition

  (c)   Planning process

  (d)   All of the mentioned

1-i.   Degree to which design specifications are followed in manufacturing the product is called(CO5,K1)   1

  (a)   Quality Control

  (b)   Quality of conformance

  (c)   Quality Assurance

  (d)   None of the mentioned

1-j.   The primary objective of formal technical reviews is to find _____ during the process so that they do not become defects after release of the software.(CO5,K2)   1

  (a)   errors

  (b)   equivalent faults

  (c)   failure cause

(d) none of the mentioned

2. Attempt all parts:-

2.a.	Explain the role of SPM in real projects.(CO1,K1)	2
2.b.	Describe phase based work break down structure in brief.(CO2,K2)	2
2.c.	Elaborate Risk management techniques in brief.(CO3,K2)	2
2.d.	Identify which organizational structure works best to accomplish the strategy of the organization?(CO4,K2)	2
2.e.	Write a short note on Project quality management.(CO5,K1)	2

SECTION-B   30

3. Answer any <u>five</u> of the following:-

3-a.	Explain project life cycle, why it is important in project management?(CO1,K2)	6
3-b.	Identify why information gathering is important in project management?(CO1,K2)	6
3-c.	Write the enumerate steps to model stepwise project planning.(CO2,K2)	6
3-d.	Write the difference between work break down and phase based work break down structure?(CO2,K2)	6
3-e.	Explain different types of Risk in brief.(CO3,K2)	6
3-f.	Differentiate between Agile and traditional project management (Waterfall)?(CO4,K3)	6
3-g.	List out the software quality practices through the software development cycle?(CO5,K2)	6

SECTION-C   50

4. Answer any <u>one</u> of the following:-

4-a.	What do you understand by the term "LIFE CYCLE". Illustrate different phases of project life cycle.(CO1,K3)	10
4-b.	Give the advantages of prototyping of software project model, why this is important in project management.(CO1,K3)	10

5. Answer any <u>one</u> of the following:-

5-a.	Describe different benefits of using Gantt chart in project management?(CO2,K3)	10
5-b.	Write and Explain of Resource Allocation in Project Management in detail?(CO2,k2)	10

6. Answer any <u>one</u> of the following:-

6-a.	Explain Five Most Common Procurement Risks.(CO3,K3)	10
6-b.	What is risk and risk management in SPM, explain in detail?(CO3,K3)	10

7. Answer any <u>one</u> of the following:-

7-a.	What is the difference between an organizational structure and an organization design? Give five (5) types of organizational structure.(CO4,K3)	10
7-b.	Differentiate between Trade off Analysis with Probability Analysis?(CO4,K3)	10

8. Answer any <u>one</u> of the following:-

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8-a. ISO 9126 is a standard to assist in evaluating the quality of a product, justify the statement.(CO5,K3) 10

8-b. Explain risk in the context of quality assurance. What are the five dimensions of risk?(CO5,K3) 10

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