

ISPM –mid – Fall – 2023/2024

منسق المادة: د. حازم الحياوي

Question 1 - 6: MCQs: **[6 marks]**

Q1: The creation of a custom software solution for client's specific problem is an example of a project in software development

- a. True
- b. False

Q2: Which of the following is Not a common characteristic of a project?

- a. Specific time frame
- b. Temporary endeavor
- c. Ongoing operation
- d. Defined scope and resources
- e. Unique output or service

Q3: Which of the following IT projects includes physical construction of hardware ,like adding or replacing servers or PCs:

- a. System enhancement project
- b. System migration project
- c. Out sourcing projects
- d. Package implementation projects
- e. Infrastructure projects

Q4: Which of the following is correct about the project management process?

- a. In the project execution phase, the primary focus is on revising the project plan and objectives
- b. In the Project Closure phase, the project manager plans for next project
- c. The Project Initiation phase is where the project officially starts, involving defining the project at a high level, identifying its purpose and scope and recognizing key stakeholders
- d. The Project Planning phase involves finalizing all project deliverables and closing contractual agreements
- e. In the Monitoring and Control phase of project management, the focus is only on monitoring the budget

Q5: Increasing the project's budget always guarantees that the project can be completed in shorter timeframe while maintaining the same scope

- a. True
- b. False

Q6: a project management :

- a. The discipline of initiating, planning, executing, controlling, and closing the work of a team to achieve specific goals and meet specific success criteria
- b. The systematic process of developing software applications in a structured manner
- c. The process of planning, organizing, and overseeing the construction of a building
- d. The practice of managing an organization's day-to-day operational activities
- e. The continuous process of managing and allocating financial resources within an organization

Q7: The creation of a custom software solution for client's specific problem is an example of a project in software development [3 marks]

Task	Duration(days)	Dependency	Programmers
T1	6	-	Ali
T2	12	-	Sarah
T3	12	T1,T2	Ali
T4	6	T1,T2	Sarah
T5	3	T3	Ali
T6	3	T3	Sarah
T7	3	T3	Ali

1. If you draw a Gantt chart taking staff allocation into account, then the project duration _____
2. If you draw a resource histogram, then the number of programmers days _____
3. Suppose that Ahmad has joined the team and you want to reschedule the tasks to make an optimal use of the workforce, (assume that tasks T1, T2, T3 and T4 can be split equally between two team members (only if team members are available), and assume that a team member can't work on two tasks at the same time), the duration of the project after rescheduling _____

Q8: If the effort of a task equals 6 person days, and two people were assigned to work on the task. Starting on a Wednesday, and taking into account that Friday and Saturday are non-working days: assume the two people work at the same pace and efficiency and the task can be divided equally between them **[2 marks]**:

1. The duration of the task : _____ day(s)
2. The elapsed time to complete the task : _____ day(s)

Q9: Match the knowledge areas to their descriptions: **[5 marks]**

1. Encompasses the processes and activities of the performing organization that determine quality policies, objectives, and responsibilities so that the project will satisfy the needs for which it was undertaken _____
2. Consists of the processes required to manage the timely completion of the project. It includes activities such as planning schedule management, defining activities, sequencing activities, estimating activity durations, and developing and controlling the schedule _____
3. Entails the processes and activities needed to identify, define, combine, unify, and coordinate the various processes and project management activities within the Project Management Process Groups _____
4. Involves processes required to ensure that the project includes all the work required, and only the work required, to complete the project successfully. It primarily focuses on defining and controlling what is and is not included in the project _____
5. Includes the processes involved in planning, estimating, budgeting, financing, funding, managing, and controlling costs so that the project can be completed within the approved budget _____


Q10: Consider the given project description to complete the following sentences: **[4 marks]**

A project manager is managing a project development of an information system using C++ Language. After analyzing the project, it was revealed that the unadjusted function point count is 600. The following general system characteristics and ratings are considered: performance (3), on-line update (5), reusability (2), distributed data processing (3) and end user efficiency (2). Using COCOMO II estimation method:

1. Total function point count is _____
2. The number of source instruction is _____
3. The effort _____
4. The total development time _____

Item	Item Description	Complexity	Count	Weight	Weighted Count
1	Number of user input	Simple		3	
		Average		4	
		Complex		6	
2	Number of user outputs	Simple		4	
		Average		5	

Q11: Fill in the blanks with the most suitable concept: **[5 marks]**

1. Project _____ primarily refers to the specific goals, deliverables, and tasks of the project.
 2. _____ is a project attribute which means that projects progress through a series of stages and advances incrementally. As additional information is obtained, finer details can be more accurately defined and expanded.
 3. Organizations that establish standards or regulations that the project must comply with are considered _____
 4. In project management, significant points that mark the completion of key phases and the achievement of major objectives are known as _____
 5. The _____ in project management is a document that formally authorizes a project, outlining its objectives, key stakeholders, scope, and overall goals, serving as a primary reference for project execution and decision-making
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Q12: Consider the following schedule for a small project: [5 marks]

Task	Duration(days)	dependency
T1	8	-
T2	15	-
T3	5	T1
T4	10	-
T5	7	T2,T4
T6	5	T5
T7	5	T1,T2
T8	4	T7

1. Q1.The project duration _____
2. Q2.The Critical path is _____
3. Q3.ESL for task T7 is day _____
4. Q4.EFT for T3 is day _____
5. Q5.Maximum delay for task T1 is _____ day (s)

KASIT Team note: This only a part of the original exam

Answers

Question	1	2	3	4	5	6
Answer	a	b	e	c	b	a

Q7	1	2	3
Answer	30	45	15

Q8	1	2
Answer	3	5

Q9:

1	Project Quality Management
2	Project Time Management
3	Project Integration Management
4	Project Scope Management
5	Project Cost Management

Q10	1	2	3	4
Answer	480	25440	72PM	13 months

Q11:

1

Scope

2

Agile development

3

Community and societal stakeholders

4

Milestones

5

Project charter

Q12	1	2	3	4	5
Answer	27	T2,T5,T6	15	22	10