

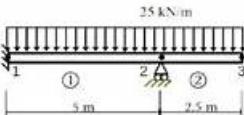
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	Two-semester Program – Final Exam	Department	Mechanical Engineering
Academic Year	2023-2024	Semester	First
Course Code	MDP 2520	Course Title	Structural Mechanics
Applicable Regulations	2018 – All Students	Date	21/01/2024
Duration	3 hours	Full Mark	75 points

Closed-Book Exam. Answer all questions

Question 4 (14 points)

The shown beam is subjected to a distributed load of 25 kN/m downward. Take $I = 118.6 \times 10^6 \text{ mm}^4$, and $E = 200 \text{ GPa}$. The beam is modeled using two beam elements 1-2 and 2-3 of lengths 5 m and 2.5 m.



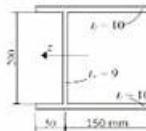
Write the reduced system of equations needed to get $(\theta_1, v_1, \theta_2)$.
(But do not solve the system of equations.)

$$\begin{bmatrix} 12 & -6L & -12 & -6L & v_1 \\ -6L & 4L^2 & 6L & 2L^2 & \theta_1 \\ -12 & 6L & 12 & 6L & v_2 \\ -6L & 2L^2 & 6L & 4L^2 & \theta_2 \end{bmatrix} = \begin{bmatrix} -1 \\ \frac{L}{6} \\ \frac{wL}{2} \\ \frac{L}{6} \end{bmatrix} \quad \begin{bmatrix} f_1 \\ f_2 \\ m_1 \\ m_2 \end{bmatrix}$$

Question 5 (6 + 8 = 14 points)

The cross-section of a beam has the shown dimensions.

(5-a) Determine the maximum torque which could be applied to this beam. The allowable shear stress is 80 MPa.
(5-b) Determine the location of the shear centre.



$$r = \frac{V_s Q}{I_s t} \quad Q_s = \int_A y \, dA \quad I_s = \int_A y^2 \, dA \quad I_s = \frac{bh^3}{12} \quad r_{max} = \frac{T}{\frac{1}{2} ab^2} \quad r = \frac{T}{2t A_s} \quad \phi = \frac{T r}{G K} \quad K = \frac{1}{3} ab^3 \quad K = \frac{4 A_s^2}{\frac{1}{2} ab}$$

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One of the most effective strategies to prepare for the Microsoft Dynamics 365 Finance Functional Consultant (MB-310) exam successfully is to prepare with actual Microsoft MB-310 exam questions. It would be difficult for the candidates to pass the MB-310 exam on the first try if the MB-310 study materials they use are not updated. Studying with invalid MB-310 practice material results in a waste of time and money. Therefore, updated Microsoft MB-310 practice questions are essential for the preparation of the MB-310 exam.

The MB-310 Certification Exam is a rigorous exam that requires extensive preparation and study. Microsoft recommends that candidates have at least two years of experience in finance and accounting before attempting the exam. MB-310 exam consists of multiple-choice questions, and the candidate must score at least 700 out of 1000 to pass the exam. Candidates who pass the exam will be awarded the Microsoft Dynamics 365 Finance Functional Consultant Certification.

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With all the information, we can say that your focus should be on real Microsoft MB-310 questions of TestInsides to clear the Microsoft Dynamics 365 Finance Functional Consultant (MB-310) test. Three formats of the MB-310 exam dumps shall collectively contribute to your success in this regard. In addition, this MB-310 prep material comes with up to 365 days of free

Microsoft Dumps updates and a free demo.

Microsoft MB-310 is an intermediate-level certification that validates the expertise of candidates in configuring, customizing, implementing, and supporting Dynamics 365 Finance. Microsoft Dynamics 365 Finance Functional Consultant certification is designed for professionals who have experience in managing the financial operations of an organization. To prepare for the exam, candidates can use various study resources such as Microsoft's official study guide, online training courses, and practice exams.

To prepare for the Microsoft MB-310 exam, individuals should have a strong understanding of financial management principles, as well as experience working with Dynamics 365 Finance. Microsoft recommends that individuals take the Finance and Operations Apps Solution Architect or the Dynamics 365 Finance Functional Consultant Associate certification before taking the MB-310 Exam. Additionally, Microsoft offers a range of training courses and resources to help individuals prepare for the exam, including instructor-led training, e-learning courses, and certification exam prep sessions.

Microsoft Dynamics 365 Finance Functional Consultant Sample Questions (Q37-Q42):

NEW QUESTION # 37

You work as the Finance Manager for a company. The company uses Microsoft Dynamics 365 Finance for its accounting system. You are configuring the system to ensure that when creating sales orders, the sales tax is automatically calculated when an item is added to a sales order line.

When testing the configuration, you discover that the sales tax is not calculated for the sales order line.

You need to verify the configuration.

Which of the following should you check?

- A. Ensure that the sales tax code is not associated with either the sales tax group or the item sales tax group.
- B. Ensure that the sales tax code is associated with both the sales tax group and the item sales tax group.
- C. Ensure that the sales tax code is associated with the sales tax group but not the item sales tax group.
- D. Ensure that the sales tax code is associated with the item sales tax group but not the sales tax group.

Answer: B

NEW QUESTION # 38

You are creating a budget for an organization.

The organization requires that allocations be performed automatically as part of budget planning.

You need to invoke allocations at a specific budget planning stage.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Answer:

Explanation:

NEW QUESTION # 39

You need to configure the system to meet the budget preparation requirements.

What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation

NEW QUESTION # 40

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

A client wants general journals to be used only to post ledger-type transactions.

You need to set up journal configuration to achieve the requirement.

Solution: Set up posting restrictions on the general journal.

Does the solution meet the goal?

- A. No
- B. Yes

Answer: A

NEW QUESTION # 41

A food manufacturer uses commodities such as beans, corn, and chili peppers as raw materials. The prices of the commodities fluctuate frequently. The manufacturer wants to use cost versions to simulate these fluctuations.

You need to set up cost versions and prices to accomplish the manufacturer's goal.

For which purpose should you use each costing type? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

□

Answer:

Explanation:

□ Explanation:

□ References:

<https://docs.microsoft.com/en-us/dynamics365/unified-operations/supply-chain/cost-management/costing- versions>

NEW QUESTION # 42

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