

Lab 350-601 Questions | 350-601 Reliable Test Notes



University of Botucatu
Faculty of Hydrocarbures and chemistry
Common Core Unit



Monday, November, 13th, 2023

14h30-15h30

Vibrating an Mechanical Waves

Test 1

Exercise :

The system represented on the figure 1 is constituted by two springs with spring constants k_1 and k_2 attached to the two ends of a rod with mass M and length L . A point mass m is fixed to the common point of the rod and the spring k_2 .

The system oscillates with small amplitudes so that :

$$\theta \approx \theta_0 ; \quad \theta \approx -\theta_0$$

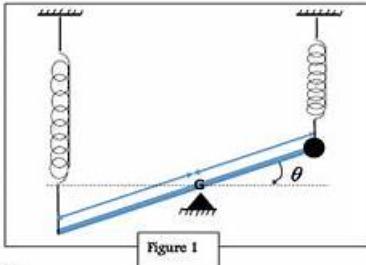


Figure 1

The system is at equilibrium position for $\theta =$.

I- Calculate with respect to θ :

I-1- Kinetic energy of the system. We give : $=$.

I-2- Potential energy and put it in its quadratic form.

I-3- Lagrangian of the system.

I-4- The differential equation of motion. Determine natural angular-frequency ω_0 and natural period T_0 .

I-5- Calculate elongation at equilibrium of the spring k_2 given that the compression of the spring k_1 is $\Delta x =$, $m = 0.1 \text{ kg}$, $k_1 = k_2 = 50 \text{ N/m}$.

II-1- By removing the mass m deduce new kinetic and potential energies without performing any new calculations.

II-2- Now, we replace the mass m and we remove the two springs. Describe the new system (draw a figure) by showing the equilibrium position.

II-3- Calculate new kinetic and potential energies

Good luck

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>> Lab 350-601 Questions <<

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Cisco Implementing Cisco Data Center Core Technologies (350-601 DCCOR) Sample Questions (Q189-Q194):

NEW QUESTION # 189

An engineer is asked to manage a large-scale data center and collect information from multiple Cisco NX-OS devices using Cisco NX-OS Data Management Engine model. Which technology should be used to accomplish this goal?

- A. NX-API REST
- B. JSON-RPC
- C. NETCONF
- D. NX Yang

Answer: A

Explanation:

Explanation

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/7-x/programmability/guide/b_Cisco_Nexus_9000_Series_NX-OS_Programmability_Guide_7x/b_Cisco_Nexus_9000_Series_NXOS_Programmability_Guide_7x_chapter_010001.pdf

NEW QUESTION # 190

An engineer must perform an initial configuration of VXLAN and MP-BGP EVPN on the Cisco Nexus 9000 Series platform. The underlay must be OSPF, and the VTEP must run with distributed default gateway on a VLAN interface. Which command set must be applied to meet these requirements?

□

- A. Option B
- B. Option A
- C. Option D
- D. Option C

Answer: A

NEW QUESTION # 191

□ Refer to the exhibit. An engineer must create a scheduler task on a Cisco Nexus 9000 Series Switch at 06:00 AM. The task must save the running configuration to a file in the bootflash, then transfer the file from the bootflash to a TFTP server. Which command must the scheduler task run after the running configuration is copied to the bootflash?

- A. `copy bootflash://${TIMESTAMP}-cfg.${SWITCHNAME} tftp://192.168.2.1/`
- B. `scheduler schedule name daylydbbackup`
- C. `scheduler job name backup-cfg`
- D. `cli var name timestamp ${TIMESTAMP}`

Answer: A

NEW QUESTION # 192

Refer to the exhibit.

□ What is the outcome of this command when the EPLD is updated on a Cisco Nexus 9000 series switch?

- A. displays the compatibility of the EPLD upgrade and the image in the bootflash
- B. shows a simulated upgrade of the EPLD

- C. upgrades the EPLD on the switch disruptively
- D. displays the impact of the upgrade on the operation of the switch

Answer: D

Explanation:

You can use the show install impact epld bootflash: command to determine whether the EPLDs can be upgraded for all the modules or for specific modules on a switch. This command indicates the current EPLD images, new EPLD images, and whether the upgrades would be disruptive to switch operations. <https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/6-x/epld/n9k-epld-rn-61.html>

NEW QUESTION # 193

An engineer is performing a configuration on a Cisco Nexus 5000 Series Switch. The requirement is for the current Fibre Channel IDs in VSAN 120 to be saved across reboots. The Cisco environment also must integrate with a third-party solution that requires persistent Fibre Channel IDs for the VSAN. The WWN of the Cisco switch must be 33:e8:00:05:30:00:16:df and its Fibre Channel ID 0x070128. Which command set meets these requirements?

- A. `ysan 120 wnn 33:e8:00:05:30:00:16:df fcid 0x070128`
`fcdomain fcid preserve vsan 120`
- B. `fcdomain fcid database`
`vsan 120 wnn 33:e8:00:05:30:00:16:df fcid 0x070128`
`fcdomain fcid persistent vsan 120`
- C. `fabric-binding database vsan 120`
`vsan 120 wnn 33:e8:00:05:30:00:16:df fcid 0x070128`
- D. `vsan 120 wnn 33:e8:00:05:30:00:16:df fcid 0x070128`
`fabric-binding activate vsan 120`
`purge fcdomain fcid vsan 4`

Answer: B

Explanation:

https://www.cisco.com/en/US/docs/storage/san_switches/mds9000/sw/rel_1_x/1_0_2a/san- os/configuration/guide/Domains.pdf

NEW QUESTION # 194

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