

# Simulation SPLK-2002 Questions | SPLK-2002 Dumps Reviews

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**MECHANICAL ENGINEERING**

**PAPER - I**

**SECTION A**

1. Answer any four of the following (each answer should conform to a limit of around 150 words).

(a) Mention the conditions required for a two mass system to be dynamically equivalent to a rigid mechanical component. Why sometimes is a hypothetical correction couple applied on the two mass system to make it dynamically equivalent to a rigid body? Find the position of centre of percussion of a compound pendulum from its centre of gravity. What is the significance of the concept of centre of percussion for a batsman playing cricket? (6 + 4 = 10)

(b) What is meant by hunting of governor? Explain briefly the causes of its occurrence. Justify with reasons, whether it is more severe in case of unstable governor or isochronous governor (10)

(c) (i) A connecting rod in I.C. engine is designed as a column, with an I-section. Designers take moment of inertia of the cross-section about one axis equal to 4 times that taken about the perpendicular axis. Why? (6 + 4 = 10)

(ii) Why is it considered that the hollow shaft under torsion is lighter than a solid one, if other parameters are the same? (6 + 4 = 10)

(d) (i) Draw a Mohr's circle of stress for a round bar which is shrink fit by a hub, with brief explanation. (5 + 5 = 10)

(ii) A cantilever is loaded and the bending moment diagram is rectangular as shown in Figure. What will be the shape of the shear force diagram?

(e) With reference to figure, neglect the weight of the bar and stopper. A load  $W$  is dropped from a height  $h$ . Given  $W = 1.0 \text{ kN}$ , area of cross-section of the bar =  $20 \text{ mm}^2$ . Find the instantaneous stress developed in the bar when the weight  $W$  is dropped from a height  $h = 0$ .

Figure: A cantilever beam fixed at the left end and free at the right end. A rectangular bending moment diagram is shown, indicating a constant moment. A load  $W$  is shown falling from a height  $h$  onto a stopper at the free end of the cantilever.

2. (a) A machine weighing  $68 \text{ N}$  is mounted on a set of springs, whose equivalent spring stiffness,  $K = 1070 \text{ N/cm}$  and damping factor,  $\xi = 0.2$  arranged vertically on a rigid foundation. A piston within the machine weighing  $2.0 \text{ N}$  has a vertical reciprocating motion, with a stroke of  $8.0 \text{ cm}$  and a crank shaft with a speed of  $3000 \text{ rpm}$ . Assuming the motion to be simple harmonic, determine:

(i) The amplitude of vibration in the vertical direction of the machine.

(ii) The transmissibility ratio and the force transmitted to the foundation. The phase lag between the transmitted force and the exciting force. (15)

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To prepare for the SPLK-2002 Exam, candidates must have a deep understanding of Splunk Enterprise and its various components, including the search processing language (SPL), data models, and knowledge objects. They must also have experience in designing and implementing complex Splunk deployments, including the ability to troubleshoot issues and optimize performance.

## Splunk Enterprise Certified Architect Sample Questions (Q162-Q167):

### NEW QUESTION # 162

When adding or decommissioning a member from a Search Head Cluster (SHC), what is the proper order of operations?

- A. 1. Trigger replication.2. Remove master node from cluster.3. Initialize cluster rebalance operation.
- B. 1. Delete Splunk Enterprise, if it exists.2. Install and initialize the instance.3. Join the SHC.
- C. 1. Initialize cluster rebalance operation.2. Remove master node from cluster.3. Trigger replication.
- **D. 1. Install and initialize the instance.2. Delete Splunk Enterprise, if it exists.3. Join the SHC.**

**Answer: D**

### NEW QUESTION # 163

Indexing is slow and real-time search results are delayed in a Splunk environment with two indexers and one search head. There is ample CPU and memory available on the indexers. Which of the following is most likely to improve indexing performance?

- A. Increase the number of parallel ingestion pipelines in server.conf
- B. Decrease the maximum size of the search pipelines in limits.conf
- **C. Decrease the maximum concurrent scheduled searches in limits.conf**
- D. Increase the maximum number of hot buckets in indexes.conf

**Answer: C**

### NEW QUESTION # 164

Which of the following is true regarding Splunk Enterprise's performance? (Select all that apply.)

- A. Adding RAM to existing search heads provides additional search capacity.
- **B. Adding search peers increases the search throughput as the search load increases.**
- **C. Adding search heads provides additional CPU cores to run more concurrent searches.**
- D. Adding search peers increases the maximum size of search results.

**Answer: B,C**

Explanation:

Explanation

The following statements are true regarding Splunk Enterprise performance:

\* Adding search peers increases the search throughput as search load increases. This is because adding more search peers distributes the search workload across more indexers, which reduces the load on each indexer and improves the search speed and concurrency.

\* Adding search heads provides additional CPU cores to run more concurrent searches. This is because adding more search heads increases the number of search processes that can run in parallel, which improves the search performance and scalability. The following statements are false regarding Splunk Enterprise performance:

\* Adding search peers does not increase the maximum size of search results. The maximum size of search results is determined by the maxresultrows setting in the limits.conf file, which is independent of the number of search peers.

\* Adding RAM to an existing search head does not provide additional search capacity. The search capacity of a search head is determined by the number of CPU cores, not the amount of RAM. Adding RAM to a search head may improve the search performance, but not the search capacity. For more information, see Splunk Enterprise performance in the Splunk documentation.

### NEW QUESTION # 165

A search head cluster member contains the following in its server.conf. What is the Splunk server name of this member?

□

- **A. node3**
- B. idxc2

- C. node1
- D. shc4

**Answer: A**

Explanation:

The Splunk server name of the member can typically be determined by the serverName attribute in the server.

conf file, which is not explicitly shown in the provided snippet. However, based on the provided configuration snippet, we can infer that this search head cluster member is configured to communicate with a cluster master (master\_uri) located at node1 and a management node (mgmt\_uri) located at node3. The serverName is not the same as the master\_uri or mgmt\_uri; these URIs indicate the location of the master and management nodes that this member interacts with.

Since the serverName is not provided in the snippet, one would typically look for a setting under the [general] stanza in server.conf. However, given the options and the common naming conventions in a Splunk environment, node3 would be a reasonable guess for the server name of this member, since it is indicated as the management URI within the [shclustering] stanza, which suggests it might be the name or address of the server in question.

For accurate identification, you would need to access the full server.conf file or the Splunk Web on the search head cluster member and look under Settings > Server settings > General settings to find the actual serverName. Reference for these details would be found in the Splunk documentation regarding the configuration files, particularly server.conf.

### NEW QUESTION # 166

Which of the following are client filters available in serverclass.conf? (Select all that apply.)

- A. Platform (machine type).
- **B. DNS name.**
- **C. IP address.**
- D. Splunk server role.

**Answer: B,C**

Explanation:

Explanation/Reference: [https://docs.splunk.com/Documentation/Splunk/7.3.1/Updating/](https://docs.splunk.com/Documentation/Splunk/7.3.1/Updating/Filterclients#Define_filters_through_serverclass.conf)




Filterclients#Define\_filters\_through\_serverclass.conf

### NEW QUESTION # 167

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