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IFS-2002 1 of 8

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 a cricket ball? (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 unbalanced 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?

(d) (i) Draw a Mohr's circle of stress for a round bar which is shrunk 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? (5 + 5 = 10)

(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 mm^2 . Find the instantaneous stress developed in the bar when the weight W is dropped from a height $h = 0$. (10)

2. (a) A machine weighing 68 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 N has a vertical reciprocating motion, with a stroke of 8.0 cm and a crank shaft with a speed of 3000 rpm. Assuming the motion to be simple harmonic, determine:

(i) The amplitude of vibration in the vertical direction of the machine. (5)

(ii) The transmissibility ratio and the force transmitted to the foundation. The phase lag between the transmitted force and the exciting force. (5)

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Salesforce Certified Platform Identity and Access Management Architect Sample Questions (Q30-Q35):

NEW QUESTION # 30

A security architect is rolling out a new multi-factor authentication (MFA) mandate, where all employees must go through a secure authentication process before accessing Salesforce. There are multiple Identity Providers (IdP) in place and the architect is considering how the "Authentication Method Reference" field (AMR) in the Login History can help.

Which two considerations should the architect keep in mind?

Choose 2 answers

- A. High-assurance sessions must be configured under Session Security Level Policies.
- B. Dependency on what is supported by OpenID Connect (OIDC) implementation at IdP.
- C. AMR field shows the authentication methods used at IdP.
- D. Both OIDC and Security Assertion Markup Language (SAML) are supported but AMR must be implemented at IdP.

Answer: C,D

NEW QUESTION # 31

The security team at Universal containers(UC) has identified exporting reports as a high-risk action and would like to require users to be logged into salesforce with their active directory (AD) credentials when doing so. For all other uses of Salesforce, Users should be allowed to use AD credentials or salesforce credentials. What solution should be recommended to prevent exporting reports except when logged in using AD credentials while maintaining the ability to view reports when logged in with salesforce credentials?

- A. Use SAML Federated Authentication and block access to reports when accesses through a standard assurance session.
- B. Use SAML Federated Authentication and Custom SAML jit provisioning to dynamically add or remove a permission set that grants the Export Reports permission.
- C. Use SAML Federated Authentication with a login flow to dynamically add or remove a permission set that grants the export reports permission.
- D. Use SAML Federated Authentication, treat SAML sessions as high assurance, and raise the session level required for exporting reports.

Answer: A

NEW QUESTION # 32

A group of users try to access one of universal containers connected apps and receive the following error message : "Failed : Not approved for access". what is most likely to cause of the issue?

- A. The users do not have the correct permission set assigned to them.
- B. The salesforce administrators gave revoked the Oauth authorization.
- C. The connected App setting "All users may self-authorize" is enabled.
- D. The use of high assurance sections are required for the connected App.

Answer: A

NEW QUESTION # 33

Northern Trail Outfitters manages functional group permissions in a custom security application supported by a relational database and a REST service layer. Group permissions are mapped as permission sets in Salesforce.

Which action should an identity architect use to ensure functional group permissions are reflected as permission set assignments?

- A. Use the Apex Just-in-Time (JIT) handler to query the Security Assertion markup Language (SAML) attributes and set permission sets.
- B. Use a Login Flow with invocable Apex to callout to the security application and set permission sets.
- C. Use a Login Flow to query SAML attributes and set permission sets.
- D. Use the Apex JIT handler to callout to the security application and set permission sets

Answer: B

NEW QUESTION # 34

Universal containers (UC) is concerned that having a self-registration page will provide a means for "bots" or unintended audiences to create user records, thereby consuming licences and adding dirty data. Which two actions should UC take to prevent unauthorised form submissions during the self-registration process? Choose 2 answers

- A. Require a captcha at the end of the self-registration process.
- B. Use hidden fields populated via java script events in the self-registration page.
- C. Use open-ended security questions and complex password requirements
- D. Primarily use lookup and picklist fields on the self registration page.

Answer: A,B

NEW QUESTION # 35

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