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11) When a coupler nut is subjected to crushing stress, crushing failure can be avoided if _____

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- a. crushing stress induced is more than permissible crushing stress in the nut
- b. permissible crushing stress is more than crushing stress induced in the threads
- c. crushing stress induced is equal to permissible crushing stress
- d. all of the above

Answer Explanation Related Ques

ANSWER: permissible crushing stress is more than crushing stress induced in the threads

Explanation:

No explanation is available for this question!

12) Which among the following is the condition to avoid separation of connected members?

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- a. Force acting on the connected members should be negative
- b. Force acting on the connected members should be positive
- c. Force acting on the connected members should be neither positive nor negative
- d. None of the above

Answer Explanation Related Ques

ANSWER: Force acting on the connected members should be negative

Explanation:

No explanation is available for this question!

13) Threads used in screw fasteners are _____

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- a. having high strength
- b. having low efficiency
- c. single start type
- d. all of the above

Answer Explanation Related Ques

ANSWER: all of the above

Explanation:

No explanation is available for this question!

14) Drilling axial hole is a method used to achieve _____

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- a. uniform strength
- b. uniform stress
- c. uniform toughness
- d. all of the above

Answer Explanation Related Ques

ANSWER: uniform strength

Explanation:

No explanation is available for this question!

15) What is the approximate nominal diameter for coarse threads?

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- a. $d = 1.136 d_c$
- b. $d = 1.59 d_c$
- c. $d = 1.19 d_c$

d. $d = 0.5 d_c$

[Answer](#) [Explanation](#) [Related Ques](#)

ANSWER: $d = 1.19 d_c$

Explanation:

No explanation is available for this question!

16) Which type of stress is induced in a screw body?

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- a. Bearing pressure
- b. Direct shear stress
- c. Torsional shear stress
- d. None of the above

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ANSWER: Torsional shear stress

Explanation:

No explanation is available for this question!

17) Calculate torque required to overcome thread friction if axial load of 8 kN acts on a power screw having double start square threads of 30 mm mean diameter. Friction angle and lead angle are 7° and 9° respectively

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- a. 68.81 N-m
- b. 41.90 N-m
- c. 34.40 N-m
- d. Insufficient data

[Answer](#) [Explanation](#) [Related Ques](#)

ANSWER: 34.40 N-m

Explanation:

No explanation is available for this question!

18) The efficiency of power screw can be improved if _____

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- a. the rolling friction is replaced by sliding friction in the screw threads
- b. the sliding friction is replaced by rolling friction in the screw threads
- c. both a. and b.
- d. none of the above

[Answer](#) [Explanation](#) [Related Ques](#)

ANSWER: the sliding friction is replaced by rolling friction in the screw threads

Explanation:

No explanation is available for this question!

19) In power screws, if friction angle Φ is less than lead angle λ , then the screw undergoes _____

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- a. over hauling
- b. self locking
- c. both a. and b.
- d. none of the above

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ANSWER: over hauling

Explanation:

No explanation is available for this question!

20) A triple start square threaded power screw has torsional shear stress and direct compressive stress of 5 N/mm^2 and 7 N/mm^2 . Calculate maximum shear stress induced in a screw body.

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- a. 7.4 N/mm^2
- b. 3.5 N/mm^2
- c. 6.10 N/mm^2
- d. 5 N/mm^2

[Answer](#) [Explanation](#) [Related Ques](#)

ANSWER: 6.10 N/mm^2