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DGCA MODULE 06 MATERIALS AND HARDWARE 1ST SESSION JULY 2017

1. Fastener is used where more strength is required?
 - A. **Bolt**
 - B. Nut
 - C. Screw

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2. The heat treatment applies to the Al- Alloy?
 - A. Solution Heat Treatment
 - B. Precipitation heat treatment
 - C. **Both A& b**
 - D. None of the above
3. Fatigue limit of the steel is equal to?
 - A. 0.2 into ultimate tensile strength of the steel
 - B. 0.5 into ultimate tensile strength of the steel
 - C. 0.9 into ultimate tensile strength of the steel
 - D. **Equal to ultimate tensile strength of the steel**
4. Cyaniding is ?
 - A. **Surface hardening process**
 - B. .
 - C. .
5. MTCS
 - A. AN350 Castle nut
 - B. **AN320 Castellated nut**
 - C. AN310 Wing Nut

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6. Taper pin is used for? www.dgcaquestionpapers.in
- A. Where tensile strength is required
 - B. Where shear strength is required**
 - C. ..
7. AN 73 Bolt is interchangeable with the ?
- A. AN 3
 - B. ..
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8. Rubber used for phosphate based hydraulic fluid is?
- A. Neoprene
 - B. Butyl**
 - C. Silicon
 - D. Buna- n
9. 4000 series of Al alloy showing which major alloying elements?
- A. Magnesium
 - B. Silicon**
 - C. Zink
 - D. Copper
10. Ni-Co press test is used for?
- A. Hardness testing
 - B. Yield strength
 - C. Brittleness
11. Most appropriate metal can be used in the vicinity of compass?
- A. K-monel**
 - B. Inconel
 - C. Monel
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12. The tester used for non ferrous metal?
- A. Barcol**
 - B. Rockwell
 - C. Brinell
13. The tested used for relatively soft material?
- A. Barcol**
 - B. Brinell

- C. Rockwell
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14. Which plastic can not be soft after hardening?
A. Thermoplastic
B. Thermosetting
C. Semi rigid
15. The process of hammering and pressing the metal is the process of?
A. Nitriding
B. Forging
C. Cold rolling
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16. The material mostly used for welding ?
A. Chrome vanadium
B. Molybdenum
C. Chrome molybdenum
17. MTCS
A. NF threads specifies 14 threads per inch.
B. UNF threads specifies 14 threads per inch.
C. Both threads are designated by no of times the incline rotates around a 1 inch length of a given diameter.
D. ATA
18. The Rivet Used For Sealing Applications? www.dgcaquestionpapers.in
A. Wiredraw cherry lock rivet
B. Bulb cherry lock rivet
C. Hook mechanical lock
19. Helical spring is used for?
A. Tension and compression load
20. The type of corrosion required disassembly and inspection? www.dgcaquestionpapers.in
A. Dissimilar metal corrosion
B. Intergranular
C. Surface corrosion
D.
21. The type of corrosion which penetrate the metal?
22. Process of corrosion removal includes?
A. Inspection of corrosion prone area

- B. As in A and removal as much corrosion product as practicable
C. As in B and restoring protective surface film
D. **As in c and applying temporary of permanent coating at points.**
23. Annealing is a process in which? www.dgcaquestionpapers.in
A. Produces a fine grained, soft, ductile metal with internal stress.
B. Produces a fine grained, with internal stress and strain.
C. **Produces a fine grained, with internal stress or strain.**
24. Recessed triangle on the head indicates?
A. Internal wrenching bolt
B. **Close tolerance bolt**
C. Special I bolt
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25. Jo-bolt is a?
A. Are often a part of permanent structure . www.dgcaquestionpapers.in
B. **As in A used in areas which are not often subjected to replacement or servicing.**
C. As in B it is internal threaded 4 piece nut.
26. Which rivet is used for non structure applications?
A. Solid shank
B. **Blind rivet**
C. Special rivet
27. The nut in which desired tightness can be obtained with the fingers? www.dgcaquestionpapers.in
A. Hex head nut
B. Plain check nut
C. **Wing nut**
28. Following is the self locking nut?
A. Castle nut
B. **Elastic stop nut**
C. Check nut www.dgcaquestionpapers.in
29. Where is the marking of rivet which classify characteristics?
A. **On head**
B. Head and shank
C. None of the above
30. Strength of the chrome vanadium steel can be increased by?
A. Cold rolling
B. Heat treatment

C. Case hardening

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31. Charpy izod test is used for?

A. Hardness

B. **Impact**

C. Brittleness

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32. Addendum of gear is?

A. **It is the portion of the teeth that projects above or outside of the pitch circle.**

B. ..

33. The portion of the tooth space that is cut below the pitch circle is equal to the addendum plus the clearance?

A. Addendum

B. **Deddendum**

C. Pitch circle

34. Diametric pitch of gear?

A. Represent the no of tooth per inch of pitch diameter.

B. **As in A. And higher diameter pitch number means a smaller tooth size.**

C. As in A. And higher diameter pitch number means a higher tooth size.

D. None

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35. MTCS

A. The radial load on bearing is due to aircraft menuours and it is perpendicular to the axis.

B. Axial load is due to compressor rotation and parallel to the axis of shaft.

C. The rollers are rolling in suited raceways.

D. **All**

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36. The spring which is formed by the layers of spring?

A. **Leaf spring**

B. Torsion

C. Helical compression

37. In aircraft fluid lines fitting flaring angle is used ?

A. 35

B. 37

C. **Both A AND B**

D. 45

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38. Aircraft flaring tool must have flaring angle of?

- A. **35-37 Degree**
- B. 40-47 Degree
- C. ..

39. MTCS

- A. AN fitting have a flaring angle of 37 degree.
- B. **As in A and it has a larger size and coarse threads.**
- C. AN Fitting have a flaring angle of 35 degree.
- D. As in C and it it has a shorter size and coarse threads.

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40. Springs are made from which material?

- A. Metal
- B. Metal, elastomer, plastic
- C. **Metal, elasomer, plastic, composite**
- D. ..

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