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Q1. Advantage of composite are

- a. Composite provides strengths similar to metal components
- b. Light in weight-ans
- c. Act as noise suppression mechanism
- d .All of the above

Q2. Advantage of Titanium alloys are

- 1. Low density and possess good corrosion resistance property
 - 2. High Specific strength
 - 3. suitable for high temperature operation
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- a.Option 1 and 2
 - b.option 1 and 3
 - c.Option 2 and 3
 - d.All the above

Q3. Balance correction is done by

- a. Re-distribution of weight
- b. Addition of weight
- c. Removal of weight
- d .All the above

Q4. By pass ratio is defined as

- a. Ratio of core air to bypass air
- b. Ratio of bypass air to core air
- c. Ratio of total air mass flow to bypass air

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d. None of the above

Q5. Engine vibrations refer to

- a. Whirling of shaft
- b. Bucking of shaft
- c. Movement of the shaft in the axial direction
- d. None of these

Q6. A Blisk is a

- a. Bladed Disc-ans
- b. Bladed drum
- c. Location where shaft meets the disc
- d. None of these

Q7. "Most common type of bearing used in a gas turbine engine are

- a. ball bearing
- b. roller bearings
- c. plane bearing

- a. Option 1 and 2
- b. Option 1 and 3
- c. Option 2 and 3
- d. All the above

Q8. A knife edge seal is used to

- a. Reduce pressure variation in cavity

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- b. Stop leakage-ans
- c. Avoid thermal leakage
- d. Is used as a support

Q9. Eddy current inspection is performed

- a. For subsurface cracks
- b .For surface cracks
- c. For nicks and scratches
- d. For composite materials

Q10. Centrifugal force is directed

- a. Towards the center
- b. Away from center
- c. Perpendicular to the radius of the circle
- d. None of the above

Q11. Annular Combustor has

- a. More pressure loss
- b.Less combustion efficiency
- c. Less heat release for a given volume
- d .Less pressure loss

Q12."Air worthiness Directive

- 1.Requires mandatory compliance
- 2.Compliance is based on Operator policy
- Is issued by Airworthiness Authority

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- a.Option 1 and 2
- b.Option 1 and 3
- c.Option 2 and 3
- d.All the above

Q13. Advantage of shrouded High Pressure Turbine blades is

- a. It improves Engine Performance
- b. It reduces vibrations
- c. Both 1 and 2 above
- d. None of these

Q14. A high Pressure compressor Blade is found to have a crack near the root

- a. The blade has to be rejected for further operation as root is a high stress area
- b. The blade is accepted bal for further service operation
- c. Compressor blades can never develop cracks at the root
- d. None of the above is correct

Q15. During the normal start of a gas turbine engine

- a.The starter alone is used
- b. Starter and ignition system are used simultaneous
- c. Ignition system alone is used
- d. None of the above

Q16. A bradable coating are used for

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- a. Maintaining clearance between the rotating components and casing/seals
- b. To provide heat insulation for the component
- c. Both Option (A) and (B)-ans
- d. None of the above

Q17. High by pass ratio engines give

- a. High specific thrust
- b. Low specific thrust
- c. Constant specific thrust
- d. None of the above

Q18. Modular engine architecture reduces

- a. Overhaul burden
- b. Line maintenance burden
- c. Cost of Ownership
- d. None of the above

Q19. During Compression process the pressure and temperature of air

- a. Increase-ans
- b. Decrease.
- c. Initially increase and then decrease
- d. None of these

Q20. High Pressure Turbine blades are cooled using air from



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- a. Ambient atmosphere**
- b. High Pressure Compressor**
- c. Low Pressure Compressor**
- d. None of the above**