

Q1. A knife edge seal is used to

- a. Reduce pressure variation in cavity
- **b. Stop leakage-ans**
- c. Avoid thermal leakage
- d. Is used as a support

ANS: b

Q2. A brad able coating are used for

- 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

ANS: c

Q3. Advantage of Titanium alloys are

- 1.Low density and possess good corrosion resistance property
- 2. High Specific strength
- 3. suitable for high temperature operation
- a.Option 1 and 2
- b.option 1 and 3
- c.Option 2 and 3
- 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
 - d .None of the above
- Q5. 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
- Q6. 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
- Q7. High Pressure Turbine blades are cooled using air from
 - a. Ambient atmosphere
 - **b. High Pressure Compressor**
 - c. Low Pressure Compressor
 - d. None of the above
- **Q8. Eddy current inspection is performed**



- a. For subsurface cracks
- b .For surface cracks
- c. For nicks and scratches
- d. For composite materials
- Q9. "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

Q10."Air worthiness Directive

- 1. Requires mandatory compliance
- 2. Compliance is based on Operator policy
- 3. Is issued by Airworthiness Authority
- a. Option 1 and 2
- b. Option 1 and 3
- c. Option 2 and 3
- d. All the above
- Q11. 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

Q12.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

Q13. A Blisk is a

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

ANS: a

Q14. 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



ANS: b

- Q15. During Compression process the pressure and temperature of air
 - a .Increase-ans
 - b. Decrease.
 - c. Initially increase and then decrease
 - d .None of these

ANS: a

- Q16. Balance correction is done by
 - a. Re-distribution of weight
 - b. Addition of weight
 - c. Removal of weight
 - d .All 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. Annular Combustor has

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

Q20. 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