

- 1.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

2.A bradable 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

- 3.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
- 4. 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

5.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

6."air worthiness Directive 1.Requires mandatory compliance 2.Compliance is based on Operator policy Is issued by Airworthiness Authority a.Option 1 and 2 b.Option 1 and 3 c.Option 2 and 3

d.All the above

7. Annular Combustor has a More pressure loss Less combustion efficiency c. Less heat release for a given volume d .Less pressure loss

- 8. Balance correction is done by
- a. Re-distribution of weight
- b. Addition of weight
- c. Removal of weight



d .All the above

- 9. 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
- 10. Centrifugal force is directed
- a. Towards the center
- Away from center
- c. Perpendicular to the radius of the circle
- d. None of the above
- 11. 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
- 12. Eddy current inspection is performed
- a. For subsurface cracks
- b .For surface cracks
- c. For nicks and scratches
- d. For composite materials



- 13.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
- 14.High by pass ratio engines give
- a. High specific thrust
- b .Low specific thrust
- c .Constant specific thrust
- d. None of the above
- 15 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

16modular engine architecture reduces

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

17.A Blisk is a

a.Bladed Disc-ans



- b. Bladed drum
- c. Location where shaft meets the disc
- d .None of these
- 18.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

19During Compression process the pressure and temperature of air

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

20 "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