

11. What is mechanism?

Ans:

A mechanism is an assembly of different parts which perform a complete motion and is often part of a machine.

12. What is annealing?

Ans:

It is a process of heating a material above the re-crystallization temperature and cooling after a specific time interval. This increases the hardness and strength of the material.

13. What is ductile-brittle transition temperature?

Ans:

It is the temperature below which the tendency of a material to fracture increases rather than forming. Below this temperature the material loses its ductility. It is also called Nil Ductility Temperature.

14. Difference between tempering and annealing

Ans:

Annealing is a process in which work piece is heated up to certain temperature to get desired changes in grain or micro-structure and then allowed to cool slowly in order to relieve the stresses during work treatment. While tempering is a process wherein hardness and elasticity or ductility can be regained by use of heating and cooling cycle till desired properties can be obtained.

15. What are the advantages of gear drive?

Ans:

Gear drive is useful for power transmission between two shafts, which are near to each other (at most at 1m distance). In addition, it has maximum efficiency while transmitting power. It is durable compare to other such as belts chain drives etc. You can change the power to speed ratio.

Advantages: -

- It is used to get various speeds in different load conditions.
- It increases fuel efficiency.
- Increases engine efficiency.
- Need less power input when operated manually.

16. What is isometric drawing?

Ans:

It is a 3-D drawing used by draftsmen, architects etc

17. What is a Process Flow Diagram?

Ans:

A Process Flow Diagram (or System Flow Diagram) shows the relationships between the major components in the system. It also has basic information concerning the material balance for the process.

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