

1. For the purpose of comparison, the steam generating capacity of a boiler is generally expressed in terms of

equivalent evaporation-Answer

kg/hr

steam pressure

thermal efficiency

2. One of the following methods is adopted for governing of steam turbines in a power plant

hit and miss governing

blow off in boiler

throttle governing-Answer

speed control

3. An aircraft gas turbine operates on

Sterling cycle

Bryton cycle-Answer

Rankine cycle

Otto cycle

4. The output of a gas turbine is 300 KW and its efficiency is 20 percent, the heat supplied is

150 KW

6000 KW

600 KW

15 KW-Answer

5. Which of the following is not used as a refrigerant ?

carbon monoxide-Answer

amonia

sulphur dioxide

carbon dioxide

6. A refrigerant used in the domestic refrigerator is

Sulphur dioxide

air

methane

freon-Answer

7. In Industry of the developed nations the type of production most often occurring is

Mass production

Batch production-Answer

Single lot production

Create lot production

8. Quick return motion is used in a

lathe

drilling

shaper-Answer

grinder

9. Draft on a pattern is provided for

facilitating pattern making

easy lifting of the casting

facilitating withdrawal of the pattern from the mould

providing for shrinkage of the casting-Answer

10. Which of the following operations cannot be performed on a lathe

facing

drilling

thread cutting

slotting-Answer

11. The pump with a low initial cost and low maintenance cost is

gear pump

bucket pump

double acting piston pump

centrifugal pump-Answer

12. Mandrels are used to hold

cutting tools

hollow work pieces-Answer

face plate

drill bits

13. The operation of enlarging of a hole is called

drilling

reaming

boring-Answer

counter sinking

14. In upcut milling the work piece is fed

at angle of 60 deg to the cutter

against the rotating cutter-Answer

at the right angle to the cutter

in the direction of the cutter

15. Sprue is the passage provided for the

outflow

smooth flow

inflow-Answer

solidification of the molten material

16. Feed in a lathe is expressed in

mm per revolution-Answer

mm per degree

mm

rpm

17. Rapping allowance is provided on a pattern to take care of

shrinkage

distortion

machining

easy withdrawal-Answer

18. Upsetting is the term used in one of the following operations

casting

turning

drilling

forging-Answer

19. Reducing flame is obtained in oxyacetylene welding with

excess oxygen

equal parts of both gases

excess of acetylene-Answer

reduced acetylene

20. Brasses and bronzes are welded using

neutral flame-Answer

oxidizing flames

carburising flame

reducing flame

21. One of the materials used for making surface plate is

granite-Answer

brass

stainless steel

wood

22. In a process chart the inverted triangle symbol indicates

an operation

inspection

storage-Answer

transport

23. One of the following function is not performed by coating on the welding electrodes

increase the cooling rate-Answer

provide protective atmosphere

refuce oxidation

stabilize the arc

24. Feeler gauges are used for measuring the

thickness of plates

clearances between mating parts-Answer

pitch of screw threads

radius of curvature

25. A micrometer screw has pitch of 0.5 mm and the themble has 100 equal divisions marked on it, the least count of the instrument in mm is

0.05

0.5

0.025

0.005-Answer

26. One of the following objectives is not achieved by the process of annealing

to relieve internal stress

to refine grain structure

to increase the yield point-Answer

to soften the metal

27. In oxacetylane welding, acetylene is produced using

Ca (OH)₂ and CO₂

Ca C₂ and H₂O-Answer

CaCO₃ and H₂O

CH₄ and H₂SO₄

28. A product layout is generally suggested for

continuous type of production-Answer

jobbing work

batch production

efficient machine utilisation

29. The objective of time study is to determine the time taken by

a new worker

a trainee

a very good worker

efficient machine utilization-Answer

30. The break even point is that volume of production where

no profit exists-Answer

maximum profits are obtained

fixed costs are less

minimum losses occur

31. The melting point of the filler material in brazing should be above

420 deg C-Answer

600 deg C

800 deg C

1000 deg C