

1. Which one of the following is incombustible ?
A.H2 B.CCl4 C.C2H2 D.S
Answer: Option B
2. The softness or hardness of a grinding wheel depends upon the type & amount of bonding material used. For general purpose cutter grinding grinding wheel is normally used.
A.hard B.soft C.silicon carbide D.aluminium oxide
Answer: Option D
3. Tin based white metals are used, where bearings are subjected to
A.high pressure & load. B.low pressure & load. C.high temperature. D.large surface wear.
Answer: Option A
4. Friction factor for fluid flow in pipe does not depend upon the
A.pipe length. B.pipe roughness. C.fluid density & viscosity. D.mass flow rate of fluid.
Answer: Option A
5. All of the following alloying elements of steel increases hardness but sacrifice ductility, except
A.nickel B.vanadium



C.molybdenum
D.chromium

Answer: Option A

11. In chemical dehumidification process

A.wet bulb temperature increases.
B.dry bulb temperature remains constant.
C.dew point temperature increases.
D.dry bulb temperature increases.

D.dry bulb temperature increases.

Answer: Option B

12. Secondary hardening in steels arises out of the

A.precipitation of fine alloy carbides at high temperatures.

B.refinement of ferrite grain size by working.

C.decomposition of retained austenite upon heat treatment.

D.precipitation of complex inter-metal-lics upon heat treatment.

Answer: Option C

13. Drills are usually made of

A.cermets
B.high speed steel
C.alloy steel
D.tungsten carbide

Answer: Option B

14. Tumbling is the process of improving the ______ of the materials/parts.

A.surface finish
B.fatigue limit
C.creep limit
D.surface cleanlineses

Answer: Option D



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15. The of a double acting reciprocating pump as compared to the single acting pump will be almost double.
A.flow output B.head developed C.overall efficiency D.weight
Answer: Option A
16. To counteract the bad effects of strain hardening on a cold formed part, it must be
A.tempered B.normalised C.annealed D.hardened
Answer: Option C
17. The dew point temperature lines on psychrometric charts are straight inclined sloping downwards to the right. When relative humidity of moist air is 100%, then
A.wet bulb temperature=dry bulb temperature. B.wet bulb temperature=dew point temperature. C.saturation temperature=dew point temperature. D.all 'a' , 'b' & 'c'
Answer: Option D
18. Galvanic corrosion can not be prevented by
A.cathodic protection. B.anodic protection. C.usage of largest possible anodic area. D.any one of these.
Answer: Option B

19. Fire in fuel gas pipelines is extinguished most effectively by



A.spraying water.

B.blanketting the area with nitrogen atmosphere.

C.fire fighting foam.

D.none of these.

Answer: Option B

20. Which of the following is the most suitable abrasive for grinding high tensile strength materials?

A.Silicon carbide

B.Corundum

C.Aluminium oxide

D.Boron carbide

Answer: Option C

21. Case hardening is not done by

A.nitriding

B.hot dipping

C.electroplating

D.both b & c

Answer: Option D

22. Satellites burn off during re-entry to earth's atmosphere, because of the

A.combustion with air.

B.gravitational pull by earth.

C.friction with earth's atmosphere.

D.loss in weight of the satellite.

Answer: Option C

23. With increase in compression ratio, the volumetric efficiency of air compressor

A.increases.

B.decreases.

C.remains same.



D.may increase or decrease (depends on the suction pressure). Answer: Option A 24. Neutrons are present in all atoms except that of A.He B.C C.H D.Ar Answer: Option C 25. Biological shield in a nuclear reactor is generally provided to protect against the A.α-rays B.β-rays C.gamma rays & neutrons D.electrons Answer: Option C 26. Skull is not formed on the carbon blocks in the hearth of a blast furnace, when it becomes cold, becaus of its A.non-wetting characteristic. B.high thermal conductivity. C.high crushing strength. D.none of these. Answer: Option A 27. Firing temperature of magnesite bricks is about _____ °C. A.800-1000 B.1000-1200 C.1600-1800 D.2400-2600 Answer: Option C



28. Hollow refractory bricks are made by

A.slip casting
B.hand moulding
C.pressing/machine moulding
D.extrusion

Answer: Option A

29. Quartz is

A.stable form of silica upto 870°C.

B.converted to tridymite on firing between 870 to 1470°C.

C.transformed to crystoballite on heating above 1470°C.

D.all (a), (b) and (c).

Answer: Option D

30. An indication of degree of firing in silica brick is its

A.specific gravity
B.fusion point
C.RUL
D.none of these

Answer: Option A