

BISHNUPUR PUBLIC PRIVATE ITI

Question Branch

Subject: TRADE THEORY. TOPIC: METALS

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PART -1

1. Brass is an alloy of
 - A. Copper and tin
 - B. Lead and tin
 - C. Copper and zinc**
 - D. Copper and silver
2. Cast iron is used for manufacturing machine beds because
 - A. It can resist more comprehensive stress**
 - B. It is heavy in weight
 - C. It is a cheaper metal
 - D. It is a brittle metal
3. In case of steel, through which one of the following processes, there will be no increase in hardness
 - A. Alloying with chromium
 - B. Hammering
 - C. Rolling
 - D. Heating above 600°C and slow cooling**
4. Which one of the following elements, influences most of the forge ability of steel
 - A. Silicone
 - B. Manganese
 - C. Carbon**
 - D. Nitrogen
5. A black malleable cast iron
 - A. Is a raw casting**
 - B. Can be worked with hard cutting tools
 - C. Which through malleablizing and is decarburized at the outer skin
 - D. Is steel cast in moulds

6. Which one of the following processes can produce high alloy steel with accurately specified chemical composition

- A. Bessemer process
- B. Open heart furnace
- C. Electric arc process**
- D. Crucible process

7. Pig iron is product of

- A. Cupola furnace
- B. Blast furnace**
- C. Open hearth furnace
- D. Electric arc furnace

8. Monel metal contains

- A. Nickel and aluminium
- B. Nickel and copper**
- C. Nickel and chromium
- D. Nickel and zinc

9. Muntz metal is an alloy of

- A. Zinc and copper**
- B. Tin and copper
- C. Aluminium and copper
- D. Copper and nickel

10. The alloys "duralumin" and "hinalium" contains 95% of

- A. Copper
- B. Zinc
- C. Lead
- D. Aluminium**

11. The filament of lamp bulbs are made of

- A. Nickel
- B. Chromium
- C. Tungsten**
- D. Tin

12. The chief alloying element of stainless Steel are

- A. **Chromium and nickel**
- B. Chromium and tungsten
- C. Nickel and vanadium
- D. Nickel and tungsten

13. Generally, bearing bushes are made of

- A. Copper
- B. Brass
- C. White metal
- D. **Gun metal**

14. Gun metal is an alloy of copper,

- A. **Tin and zinc**
- B. Lead and zinc
- C. Zinc and nickel
- D. Lead and nickel

15. The chief chemical property of aluminium is that it is

- A. **Soft**
- B. Brittle
- C. Strong
- D. Tough

16. The main product of puddling furnace is

- A. **Wrought-iron**
- B. Cast iron
- C. Cold rolled steel
- D. Hot rolled steel

17. What is the name of the furnace, which is used for the manufacture of C.I.

- A. Open hearth
- B. **Cupola**
- C. Bessemer
- D. Pudding

18. Which one of the following range of carbon content is present in pig iron

A. **0.05 to 1.4%**

B. 0.9 to 1.4%

C. 1.7 to 2.2%

D. 3 to 5%

19. Which one of the following is an alloy of carbon and Iron

A. Cast iron

B. **Steel**

C. Pig iron

D. Wrought-iron

20. Carbon content increase in steel result in

A. Increase in strength

B. Increase in ductility

C. Increase in malleability

D. **Increase in hardness**

21. Solid milling cutter are manufactured from

A. Ceramic

B. Satellite

C. Sintered carbide

D. **H.S.S**

22. A solid forged boring tool is made of

A. **H.S.S**

B. Tungsten carbide

C. Satellite

D. Cast iron

23. Which one of the following properties offers resistance to abrasion

A. **Hardness**

B. Toughness

C. Ductility

D. Malleability

24. Which one of the following is a chemical property of metal

- A. Corrosiveness
- B. Conductivity
- C. Hardness
- D. Elasticity

25. Which one of the following metals has less carbon content

- A. Plain carbon steel
- B. Wrought-iron**
- C. Pig iron
- D. Cast iron

26. Grey cast iron is

- A. Malleability
- B. Ductile
- C. Tensile
- D. Rigid**

27. Which one of the following alloys can resist saltwater corrosion

- A. Brass
- B. Gun metal
- C. Zinc alloy**
- D. Nickel chrome alloy

28. Which one of the following metals is corrosion resistant

- A. Copper
- B. Mild steel
- C. Aluminium
- D. Tin**

29. Crane hooks are made of

- A. Wrought-iron**
- B. High carbon steel
- C. Cast steel
- D. Cast iron

30. Carbon percentage in HSS tool is

- A. **0.75 to 1.00%**
- B. 1.00 to 2.00%
- C. 0.60 to 0.75 %
- D. 0.20 to 0.30%

31. The property by which metal can be rolled into sheet is

- A. Elasticity
- B. **Malleability**
- C. Ductility
- D. Tenacity

32. Bronze is an alloy of

- A. **Copper and tin**
- B. Lead and tin
- C. Copper and zinc
- D. Copper and lead

33. Desirable hardness in a file is generally

- A. 30 HRC
- B. 45 HRC
- C. **60 HRC**
- D. 80 HRC

34. Carbon content in cold chisel is

- A. 0.6 to 0.7%
- B. 0.85 to 0.95%
- C. **1.0 to 1.2%**
- D. 1.2 to 1.4%

35. Main alloying element in H.S.S. is

- A. **Tungsten**
- B. Chromium
- C. Vanadium
- D. Nickel

36. Galvanised iron is coated with

- A. Tin
- B. Zinc**
- C. Lead
- D. Copper

37. White metal is an alloy of

- A. Copper and tin
- B. Copper, zinc and tin
- C. Copper, lead, tin and antimony**
- D. Copper, zinc, tin and antimony

38. Which among the following is the lightest metal

- A. Lead
- B. Tin
- C. Aluminium**
- D. Copper

39. Aluminium in its pure form is not used for engineering work because

- A. It is brittle
- B. It is very light
- C. It is costly
- D. It lacks strength**

40. Grey cast iron has

- A. High comprehensive strength**
- B. Low comprehensive strength
- C. High tensile strength
- D. Low tensile strength

41. Which one of the following is the resistance of a metal to elastic deformation

- A. Ductility
- B. Strength
- C. Stiffness**
- D. Toughness

42. Which one among the following properties of a metal is the power of return to its original shape after deformation when the load is removed

- A. Ductility
- B. Malleability
- C. Stiffness
- D. **Elasticity**