



Department of Mechanical Engineering

PR 8592 – Welding Technology

Unit III - MCQ Bank

1. At what temperature, does fusion welding takes place?

- A. 850°C
- B. 900°C
- C. 950°C**
- D. 1000°C

Answer: (C)

2. Which of the following is not a type of diffusion welding?

- A. Gas-pressure welding
- B. Vacuum fusion welding
- C. Eutectic fusion bonding
- D Eutectoid fusion welding**

Answer: (D)

3. What is the minimum frequency used in ultrasonic welding?

- A. 10, 000 Hz
- B. 20,000 Hz**
- C. 30,000 Hz
- D. 40,000 Hz

Answer: (B)

4. What is the maximum frequency used in ultrasonic welding?

- A. 30, 000 Hz
- B. 40,000 Hz
- C. 50,000 Hz
- D. 60, 000 Hz**

Answer: (D)

5. In what conditions are the parts kept before welding in ultrasonic welding method?

- A. Low static pressure**
- B. High static pressure
- C. Low moving pressure
- D. High moving pressure

Answer: (A)

6. What is the maximum thickness that can be welded in ultrasonic welding?

- A. 1.8 mm
- B. 2.1 mm
- C. 2.3 mm
- D. 2.5 mm**

Answer: (D)

7. Electric currents are passed in ultrasonic welding.

- A. True
- B. False**

Answer: (B)

8. What is the minimum thickness that can be welded in ultrasonic welding?

- A. 0.58 mm
- B. 0.21 mm
- C. 0.38 mm**
- D. 0.92 mm

Answer: (C)

9. Which of the following is not a factor for explosive welding?

- A. High relative velocity
- B. Less amount of plastics**
- C. Proper orientation
- D. High pressure

Answer: (B)

10. ' α ' is the angle between target plate and flyer plate.

- A. True**
- B. False

Answer: (A)

11. Which of the following methods cannot be used for welding carbon steel?

- A. Arc welding
- B. Gas welding

C. Ultrasonic welding

D. Forge welding

Answer: (C)

12. High alloys steels are preheated up to what temperature?

A. 350°C

B. 400°C

C. 450°C

D. 500°C

Answer: (B)

13. Which of the following material is not used in alloy steels?

A. Molybdenum

B. Nickel

C. Chromium

D. Sodium

Answer: (D)

14. Which among the following methods is best suited for stainless steels?

A. Electric butt welding

B. Seam welding

C. Flux coated arc welding

D. Oxy-hydrogen welding

Answer: (A)

15. What is the temperature needed for preheating in cast irons?

A. 550°C

B. 600°C

C. 650°C

D. 700°C

Answer: (B)

16. Which of the following materials are not suited for cold welding?

A. Brass

B. Steel

C. Silver

D. Gold

Answer: (B)

17. What is the cross-sectional shape of a thermoplastic welding rod?

- A. Triangular**
- B Hexagonal
- C. Square
- D. Pentagonal

Answer: (A)

18. Which of the following is not a type of related processes?

- A. Soldering
- B. Percussion**
- C. Brazing
- D. Hard-pressing

Answer: (B)

19. Which of the following is not a type of solid state welding?

- A. Projection**
- B. Ultrasonic
- C. Friction
- D. Diffusion

Answer: (A)

20. What is the density of the plastic used in speed tip welding?

- A. 916 kg/m³
- B. 923 kg/m³
- C. 946 kg/m³**
- D. 982 kg/m³

Answer: (C)

21. Which of the following could be considered as a related process?

- A. Explosive
- B. Oxy-Hydrogen welding
- C. Oxy-Acetylene cutting**
- D. Electron-beam

Answer: (C)

22. Which of the following is affected by weld contour?

- A. Fatigue**
- B. Creep
- C. High pressure property

D. Low pressure property

Answer: (A)

23. Thermite contains which metal?

A. Zinc

B. Copper

C. Aluminum

D. Manganese

Answer: (C)

24. A Thermite reaction produces heat up to what temperature?

A. 4800°F

B. 4000°F

C. 5600°F

D. 5300°F

Answer: (B)

25. The process of carbon arc welding is not used for which of the following material?

A. Copper

B. Bronze

C. Aluminum

D. Iron

Answer: (D)