



Department of Mechanical Engineering

PR 8592 – Welding Technology

Unit II - MCQ Bank

1. The voltage used in resistance welding is generally kept between

- A. **4-12 volts**
- B. 12-20 volts
- C. 20-28 volts
- D. 28-36 volts

Answer: (A)

2. The heat generated (H) in resistance welding is expressed by

- A. **I^2Rt**
- B. IR^2t
- C. IRt^2
- D. $2IRT$

Answer: (A)

3. The voltage needed in resistance welding does not depend upon

- A. Composition
- B. Area
- C. Thickness of weld
- D. **Length of weld**

Answer: (D)

4. Which of the following statement(s) is/are true for resistance welding?

- i. The time for which current flows is very important
- ii. After switching off the current, the pressure is maintained until the weld cools
- iii. Water is circulated through hollow electrodes to cool the electrodes

- A. i & ii
- B. i & iii
- C. ii & iii
- D. **i, ii & iii**

Answer: (D)

5. In resistance welding, two electrodes are made of

- A. Aluminum

B. Copper

C. Iron

D. Bronze

Answer: (B)

6. Which of the following is not a resistance welding?

A. Spot welding

B. Butt welding

C. Pressure welding

D. Percussion welding

Answer: (C)

7. The resistance welding process suitable for welding ferrous and non-ferrous metals upto 8mm thickness is

A. Spot welding

B. Projection welding

C. Butt welding

D. Pressure welding

Answer: (A)

8. Cross-wire welding is

A. Multi-spot welding process

B. Continuous spot welding process

C. Used to form mesh

D. Used where additional strength is desired

Answer: (C)

9. Projection welding is

A. Multi-spot welding process

B. Continuous spot welding process

C. Used to form mesh

D. Used to make cantilevers

Answer: (A)

10. Seam-welding is

A. Multi-spot welding process

B. Continuous spot welding process

C. Used to form mesh

D. Used for welding cylindrical objects

Answer: (B)

11. In spot welding, for lap joint, the diameter of welded zone (weld nugget) should be Where 't' is thickness of sheet

- A. $4t+2.5\text{mm}$
- B. $8t+2.5\text{mm}$
- C. $12t+2.5\text{mm}$
- D. $2t+2.5\text{mm}$**

Answer: (D)

12. In spot welding, the spacing between two spot welds is

- A. $4t$
- B. $8t$
- C. $12t$**
- D. $16t$

Answer: (C)

13. In spot welding, the tip diameter of electrode is about

- A. \sqrt{t}**
- B. $\sqrt{2t}$
- C. $2\sqrt{t}$
- D. $\sqrt{3t}$

Answer: (A)

14. Which of the following is not true about fusion welding?

- A. It depends upon the characteristics of heat source.
- B. It depends upon the nature of deposition of the filler material
- C. It does not depend upon the heat flow characteristics in the joint**
- D. It depends upon the gas metal or slag metal reaction

Answer: (C)

15. Which kind of resistance is experienced in upset butt welding?

- A. Electric resistance**
- B. Magnetic resistance
- C. Thermal resistance
- D. Air resistance

Answer: (A)

16. which of the following can be easily be welded from flash butt welding process?

- A. Tin
- B. Lead

C. Cast irons

D. Carbon steel

Answer: (D)

17. Electrodes used in spot welding are made up of which material?

A. Only Copper

B. Copper and tungsten

C. Copper and chromium

D. Copper and aluminum

Answer: (D)

18. How are the metals to be welded connected to each other in spot welding?

A. Electric contact

B. Magnetic field

C. Mechanical pressure

D. Direct contact

Answer: (C)

19. Which of the following method is not used in applying pressure in spot welding process?

A. Hand lever

B. Foot lever

C. Air pressure

D. Hydraulic cylinder

Answer: (A)

20. Up to what thickness, can steel be welded using spot welding process?

A. 10 mm

B. 11 mm

C 12 mm

D. 13 mm

Answer: (C)

21. What is the maximum power supply needed for the working of spot welding process?

A. 135 kVA

B. 140 kVA

C. 145 kVA

D. 150 kVA

Answer: (C)

22. What is the minimum power supply needed for the working of spot welding process?

A. 10 kVA

B. 14 kVA

C. 6 kVA

D. 22 kVA

Answer: (A)

23. Upset butt welding is majorly used in the making of automobile parts.

A. True

B. False

Answer: (B)

24. In flash butt welding, the forced out metal is called flash.

A. True

B. False

Answer: (A)

25. Which of the following is not included in weldability?

A. Ability of mechanical soundness

B. Serviceability of joint

C. Strain relieving brittleness

D. Metallurgical compatibility of metal

Answer: (C)