

WORK SHEET
UNIT-IV

MCQS

1. MMC stands for
 - A) Metal Matrix Composite
 - B) Mechanical Matrix Composite
 - C) Material Matrix Composite
 - D) Mixed Matrix Composite**Answer: A**
2. The matrix in MMC is generally
 - A) Polymer
 - B) Metal
 - C) Ceramic
 - D) Glass**Answer: B**
3. Common matrix material used in MMC is
 - A) Aluminium
 - B) Wood
 - C) Plastic
 - D) Rubber**Answer: A**
4. Reinforcement in MMC may be
 - A) Fibers
 - B) Particles
 - C) Whiskers
 - D) All of the above**Answer: D**
5. Powder metallurgy is a
 - A) Liquid process
 - B) Solid state process
 - C) Gas process
 - D) None**Answer: B**
6. Stir casting is a
 - A) Solid process
 - B) Liquid process
 - C) Chemical process
 - D) None**Answer: B**
7. In stir casting, reinforcement is mixed in
 - A) Solid metal
 - B) Molten metal
 - C) Gas
 - D) None**Answer: B**

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8. In-situ composites are formed

- A) Before processing
- B) During processing
- C) After processing
- D) None

Answer: B

9. Wettability refers to

- A) Hardness
- B) Liquid spreading ability
- C) Strength
- D) Density

Answer: B

10. Diffusion bonding is

- A) Liquid joining
- B) Solid state joining
- C) Mechanical joining
- D) None

Answer: B

11. Squeeze casting uses

- A) Low pressure
- B) High pressure
- C) No pressure
- D) Vacuum

Answer: B

12. MMCs generally have

- A) Low strength
- B) High stiffness
- C) High ductility
- D) Low hardness

Answer: B

13. Interface is between

- A) Fiber and air
- B) Matrix and reinforcement
- C) Two metals
- D) None

Answer: B

14. A limitation of MMC is

- A) Easy fabrication
- B) Difficult processing
- C) Low cost
- D) High ductility

Answer: B

15. MMCs are widely used in

- A) Aerospace
- B) Automotive
- C) Defense



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D) All of the above

Answer: D

Fill in the Blanks

1. MMC stands for _____
2. The matrix phase is _____
3. Reinforcement improves _____ and _____
4. Powder metallurgy involves _____ and sintering
5. Stir casting uses _____ metal
6. Wettability improves _____
7. Diffusion bonding occurs in _____ state
8. In-situ composites form during _____
9. Squeeze casting applies _____ pressure
10. MMCs are used in _____ industries

Answers

1. Metal Matrix Composite
2. Metal
3. Strength and stiffness
4. Compaction
5. Molten
6. Bonding
7. Solid
8. Processing
9. High
10. Aerospace/automotive



NRCM

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