1. AFF process is employed for
   (a) Deburring
   (b) Radiusing
   (c) Polishing
   (d) Removing recast layer
   (e) All of the above
   Ans. (e)

2. In AFF the media extruding pressure ranges from
   (a) 0.70-22 MPa
   (b) 15-60 MPa
   (c) 0.5-10 MPa
   Ans. (a)

3. Replaceable inserts in AFF tooling is made of
   (a) Copper
   (b) Mild steel
   (c) Teflon
   (d) Brass
   Ans. (c)

4. The base material in AFF process is made up of an organic polymer and
   (a) Paraffin oil
   (b) Hydrocarbon gel
   (c) Grease
   Ans. (b)

5. Which type of media is used to finish large holes
   (a) Stiffest
   (b) Soft
   Ans. (a)

6. Profile of surface after AFF process is
   (a) Unidirectional
   (b) Bidirectional
   Ans. (a)

7. Higher viscosity of the polishing media in AFF process results in
   (a) Higher surface roughness
   (b) Lower surface roughness
   Ans. (b)

8. AFF can produce dimensional tolerance of
   (a) ± 0.005 mm
(b) ± 0.01 mm
(c) ± 0.009 mm
Ans. (a)

9. What type of cavity is employed in orbital AFF
   (a) Partially through cavity
   (b) Through cavity
   (c) Blind cavity
   Ans. (c)

10. Minimum limit of hole diameter can be machined in AFF is
    (a) 0.2 mm
    (b) 0.8 mm
    (c) 0.01 mm
    Ans. (a)

11. The flexibility of AFM process is
    (a) High
    (b) Low
    (c) Moderate
    Ans. (a)

12. In AFF maximum machining takes place when there is
    (a) Minimum restriction
    (b) Maximum restriction
    Ans. (b)

13. Material removal rate in MRF is proportional to
    (a) Applied Pressure
    (b) Relative velocity
    (c) Both
    Ans. (c)

14. Volume concentration of CIP in MR fluid is in the range of
    (a) 30-50%
    (b) 10-20%
    (c) 50-80%
    Ans. (a)

15. Additives are used in MR fluid to
    (a) Achieve stability
    (b) Reduce redispersibility
    (c) Achieve settling
16. With increasing magnetic flux density, change in surface roughness in MRAFF process
   (a) Increases
   (b) Decreases
   Ans. (a)

17. Under the application of external magnetic field MR fluid acts as
   (a) Shear thickening fluid
   (b) Shear thinning fluid
   Ans. (b)

18. Which abrasive particle is generally used to finish optics in MRF process
   (a) Aluminium oxide
   (b) Cerium oxide
   (c) Boron carbide
   Ans. (b)

19. Main stress responsible for material removal in MRF process is
   (a) Shear stress
   (b) Normal stress
   Ans. (a)

20. During synthesis of MR fluid, what type of liquid is responsible for the continuous phase
   (a) Organic
   (b) Inorganic
   Ans. (a)