

10. Which of the following is a steam turbine?
 a. De laval b. Kaplan c. Francis d. Bulb
11. A gas turbine works on which cycle?
 a. Carnot b. Brayton c. Dual cycle d. Rankine cycle
12. A jet engine works on the principle of
 a. Conservation of mass. b. Conservation of energy.
 c. Conservation of momentum. d. Conservation of discharge.
13. In turbofan engine, the bypass ratio is the ratio of
 a. total mass flow rate of exhaust stream to the mass flow rate of stream from turbine exhaust
 b. total mass flow rate of exhaust stream to the mass flow rate of stream from fan exhaust
 c. the mass flow rate of stream from turbine exhaust to the mass flow rate of stream from fan exhaust
 d. the mass flow rate of stream from fan exhaust to the mass flow rate of stream from turbine exhaust
14. What is the main source for the formation of wind?
 a. Uneven land b. Sun c. Vegetation d. Seasons
15. The amount of energy available in the wind at any instant is proportional to of the wind speed.
 a. Square root power of two b. Square root power of three
 c. Square power d. Cube power
16. Winds having speed of is suitable to operate wind turbines.
 a. 5 – 25m/s b. 10 – 35m/s c. 20 – 45m/s d. 30 – 55m/s
17. The rotor blades start to rotate
 a. At cut-in speed b. cut-out speed c. rated speed d. furling speed
18. In centrifugal pump, the fluid enters the pump
 a. From all sides b. through the top
 c. through the bottom d. through the center
19. The parameter used by ASME to define fans, blowers and compressors is
 a. Fan ratio b. Specific ratio c. Blade ratio d. Twist factor
20. Axial fans are best suitable for application.
 a. Large flow, low head b. Low flow, high head
 c. High head, large flow d. Low flow, low head