

2014

ME : Mechanical Engineering

AI24BTECH11022 - Pabbuleti Venkata Charan Teja

- 27) Which one of the following is a CFC refrigerant?
- a) R744
 - b) R290
 - c) R502
 - d) R718
- 28) The jobs arrive at a facility, for service, in a random manner. The probability distribution of number of arrivals of jobs in a fixed time interval is
- a) Normal
 - b) Poisson
 - c) Erlang
 - d) Beta
- 29) In exponential smoothening method, which one of the following is true?
- a) $0 \leq \alpha \leq 1$ and high value of α is used for stable demand
 - b) $0 \leq \alpha \leq 1$ and high value of α is used for unstable demand
 - c) $\alpha \geq 1$ and high value of α is used for stable demand
 - d) $\alpha \leq 0$ and high value of α is used for unstable demand
- 30) For machining a rectangular island represented by coordinates $P(0,0)$, $Q(100,0)$, $R(100,50)$ and $S(0,50)$ on a casting using CNC milling machine, an end mill with a diameter of 16mm is used. The trajectory of the cutter centre to machine the island $PQRS$ is
- a) $(-8, -8), (108, -8), (108, 58), (-8, 58), (-8, -8)$
 - b) $(8, 8), (94, 8), (94, 44), (8, 44), (8, 8)$
 - c) $(-8, 8), (94, 0), (94, 44), (8, 44), (-8, 8)$
 - d) $(0, 0), (100, 0), (100, 50), (50, 0), (0, 0)$
- 31) Which one of the following instruments is widely used to check and calibrate geometric features of machine tools during their assembly?
- a) Ultrasonic probe
 - b) Coordinate Measuring Machine (CMM)
 - c) Laser interferometer
 - d) Vernier calipers
- 32) The major difficulty during welding of aluminium is due to its
- a) high tendency of oxidation
 - b) high thermal conductivity
 - c) low melting point
 - d) low density

