

**QUIZ NO: 116** 

**TOPIC: ELECTRICAL ENGINEERING** 

**DATE: 20/10/2022** 

1.	Starting current of a straight type repulsion motor is about its full load value ?
	[A] 3 to 4 times
	[B] Half
	[C] The same as
	[D] 7 to 10 times
	Answer: A
2.	Which of the following motors is operated either on direct or single-phase AC supply and produces approximately the same speed and output?
	[A] Universal motor
	[B] Capacitor start and capacitor run induction motor
	[C] Capacitor start induction run motor
	[D] 1-phase series motor
	Answer: A
3.	A two-value capacitor-run motor starts with a capacitor and runs with a capacitor ?

Join our social media













	[A] High; High	
	[B] Low; High	
	[C] Low; Low	
	[D] High; Low	
	Answer: D	
4.	The main and auxiliary winding impedance of a 50-Hz, capacitor-start single-phase induction $Zm = (3 + j3) \Omega$ and $Za = (7 + j3) \Omega$ . Determine the value of the capacitor to be connected in the auxiliary winding to achieve a phase difference of 90° between the currents of the two value start?	n s <b>erie</b> s <mark>wi</mark> th
	[A] 225 μF	
	[B] 22.5 μF	
	[C] 318 μF	
	[D] 31.8 μF	
	Answer: C	
5	Reluctance motor is basically a ?	
5.	[A] DC shunt motor	
	[B] Servo motor	
	[C] DC series motor	
	[D] Single-phase synchronous motor	
	Answer: D	
6.	In a single-phase, resistance split-phase motor, the phase difference between the current the auxiliary winding and the main winding is approximately?	s in
	[A] 60° mechanical	
	Join our social media	



[B] 30° electrical

[C] 60° electrical

	[D] 30° mechanical
	Answer: B
7.	Which of the following machines has high power factor and efficiency under running conditions?  [A] Capacitor-start single-phase induction motor  [B] Two-value capacitor single-phase induction motor  [C] Resistance split-phase single-phase induction motor  [D] Shaded-pole single-phase induction motor
	Answer: B
8.	The starting winding of a single-phase motor is placed in?  [A] Rotor  [B] Stator  [C] Armature  [D] Field  Answer: B
9.	A 220-V, 50-Hz, 6-pole, single-phase induction motor runs with 3% slip. Determine the rotor speed ?  [A] 1455 rpm  [B] 728 rpm  [C] 970 rpm  [D] 960 rpm  Answer: C
10	. The rotor of a hysteresis motor is made of ceramic permanent magnet material, which causes ?



- [A] No hysteresis losses
- [B] Stationary flux
- [C] No eddy current losses
- [D] High eddy current losses

**Answer: C** 











