# KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

## ELECTRICAL ENGINEERING DEPARTMENT

### Dr. Ibrahim O. Habiballah

#### **EE-306**

## **Key Solution**

Quiz 4	Sec.: 3	I.D.:	Ser#:	Name:	
Circle the co	orrect answer.				
1) A duplex, a. 16 b. 8 c. 4 d. 2	wave, 4-pole l	OC machine has	s current paths.	•	(2 Marks)
<ul><li>a. input-pov</li><li>b. input-pov</li><li>c. converted</li></ul>	ver is same as over is same as of l-power is same	tional losses igroutput-power. converted-powe e as developed-power e as output-power	r. oower.		(2 Marks)
<ul><li>a. input-curr</li><li>b. load-curr</li></ul>	rent is same as ent is same as f	field-current.	following is TRUE		(2 Marks)
a. $E_A = V_T$ - b. $E_A = V_T$ + c. $V_T = E_A$ -	rated voltage of $V_{BD} + (R_A + R_S)$ $V_{BD} + R_A I_A$ . $V_{BD} + (R_A + R_S)$ $V_{BD} + R_A I_A + R_S$	$f(I_A)$	nerator with a brus	h-voltage drop is	(2 Marks)
<ul><li>a. a variable</li><li>b. a variable</li></ul>	e field-resistance field-resistance	e only. e and a variable	ed can be controlled e armature-voltage. iable armature-volt		(2 Marks)

d. a variable field-resistance, a variable armature-resistance and a variable armature-voltage.