

UNIVERSIDAD DE SAN CARLOS DE GUATEMALA **FACULTAD DE INGENIERÍA ESCUELA DE CIENCIAS** DEPARTAMENTO DE FÍSICA ING. OSCAR TECUN

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Física 2 P	Nota:
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TAREA HOJA DE TRABAJO

EXAMEN CORTO

No.

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all potent

Ø = E . A E= 141-21) W/C A= (3;+7;) m2 Q= (4)(3);+(-2)(7); Q1= 121-141 Ø1= -2

Ø = E·A 8/ d= - 2 N·m2 E= (41-21) N/c Φ1 = 26 N·m? A= (31-71)m2 P2 = (4)(3) + (-2)(-7) Ø2 = 12 + 14 Di= 26

0= 4x10-9 c = 0= 9 = q = 0A = J= genc FA genc Eo E= genc

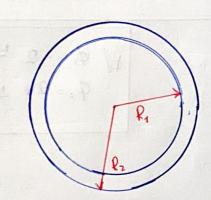
E= OA A'EO

1 p EdA = genc (= (4x10-9)(47 (0.02)2) = 471 (0.04) 2 80 F= 110.09 \$=(112.99)(471004)2 coso = 2.27 Q = 2.27 ≈ 2.3 N·m²

$$\Phi = \{0, 9\}$$

$$E = (8) + (6)$$

$$D = 64 \quad Dm^2$$



$$q = (5 \times 10^{-9}) \left(\frac{4}{3} \pi \left[(0.08)^3 - (0.00)^3 \right] \right)$$

$$q = 6.199 \times 10^{-12}$$

· 6.56 W/c

$$\frac{E = Pr}{2E_0} = \frac{(5 \times 10^{9})(0.05)}{2E_0} = 14.1 \frac{N}{C}$$

$$\frac{E = \rho R^2}{2E_0 r} = \frac{(6x10^{-9})(0.12)^2}{2E_0(0.15)} = 27.1$$

21 - 2.48 n C

$$\frac{q}{A} = 0 \qquad F = Eq \qquad F = mq$$

$$E = \frac{F}{q}$$

$$E = \frac{1}{2}$$

$$E = \frac{1}{4}$$

$$\frac{F}{9} = \frac{\sigma}{2\epsilon_0}$$

$$\sigma = \frac{2(10 \times 10^{3})(9.8)(8.)}{-0.700 \times 10^{-3}} = -2.48 \times 10^{-9} = -2.48 \times 10^{-9}$$