المادة : خواص مادة و كهربية	قسم : الفيزياء	M
الزمن : ساعتان	الفرقة : الاولى كلية التربية	
ترم اول / 2016/2015	شعبة : الرياضيات تخلفات	CALL PROPERTY AND
	الاجابات 1⁄2 ورقة (كهرومغناطيسية)	
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Chose the correct answer (40 degree) 8 x 5 *answer all questions*

1) A uniform electric field is created by two parallel plates separated by a distance of 0.04 m. What is the magnitude of the electric field established between the plates if the potential of the first plate is +40V and the second one is -40V?

(A) 20 V/m (B) 200 V/m (C) 2,000 V/m (D) 20,000 V/m

2) An electric dipole is

(A) two +ve charges of equal magnitude separated by a distance between them---- (B) two +ve charges of not equal magnitudes separated by a distance between them --- (C) two charges of opposite sign and same value separated by a distance between them--- (D) two charges of opposite sign and not equal value separated by a distance between them

- **3**) The ratio of the magnitude of the charge Q to the magnitude of the potential difference V is defined as:
- (A) Resistance (B)Electric Field (C) Electric capacity(D)Magnetic Field
- 4) A conducting sphere of radius 0.01m has a charge of $1.0 \times 10-9$ C deposited on it. The magnitude of the electric field in N/C just outside the surface of the sphere is:
 - A. 0 B. 450 C. 900 D. 4500
- 5) The capacitance of a parallel-plate capacitor can be increased by:A. increasing the charge B. decreasing the charge C. increasing the plate separation D. decreasing the plate separation
- 6) A parallel-plate capacitor has a plate area of $0.2m^2$ and a plate separation of 0.1mm. To obtain an electric field of 2.0×106 V/m between the plates, the magnitude of the charge on each plate should be:

A. $8.9 \times 10-7$ C B. $1.8 \times 10-6$ C C. $3.5 \times 10-6$ C D. $7.1 \times 10-6$ C

7)- A hollow metal sphere is charged to a potential V. The potential at its center is:

A. V	B . 0	C. –V I	D. 2V	
8- Which of the following is not the same as watt?				
(A)	joule/sec	(.	B) amperes/volt	
(C) :	amperes x volts		(D) (amperes $)^2$ x ohm.	