

# QUESTIONS & ANSWERS

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**NCEES**

## FE Electrical and Computer

*NCEES - FE Electrical and Computer (Test Engine)*

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## Question

An existing synchronous motor is retrofitted from 50Hz, 4-pole construction to a 60Hz 2-pole construction. Calculate the change in its synchronous speed.

- (A) 1500 rpm                      (B) 2100 rpm  
(C) 3600 rpm                      (D) 0 rpm

☐

Option A

☐

Option B

☐

Option C

☐

Option D

## Question

Calculate the slip of a 2-pole 600V induction motor operating at 60Hz with a rotational speed of 3400 rpm.

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Option A

☐

Option B

☐

Option C

☐

Option D

Enter Answer

  
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## Question

\_\_\_\_\_ is a triangular pulse with center at  $t = -1$ , amplitude = 5 and  $\tau = 2$ .

(A)  $5\Lambda\left(\frac{t-1}{2}\right)$

(B)  $5\Lambda\left(\frac{t+1}{2}\right)$

(C)  $5\Lambda(2(t-1))$

(D)  $5\Lambda(2(t+1))$



Option A



Option B



Option C



Option D

## Explanation

Triangular pulse centered at  $t = t_0$  (time shifting) with amplitude =  $A$  (amplitude scaling) and  $\tau = 2$  is given as

$A\Lambda\left(\frac{t-t_0}{\tau}\right)$ . Therefore, the triangular pulse given in problem statement can be represented as follows:

$$5\Lambda\left(\frac{t - (-1)}{2}\right) = 5\Lambda\left(\frac{t + 1}{2}\right)$$

## Question

Consider a time-domain signal  $f(t)$ . Which one of the following options correctly describe the impact of  $f(4t)$ ?

(A)  $f(4t) = 4f(t)$

(B)  $f(4t) = f(t)/4$

(C) Time period of  $f(4t)$  increases by 4

(D) Time period of  $f(4t)$  decreases by 4



Option A



Option B



Option C



Option D

## Explanation

$f(4t)$  will compress the time-period of  $f(t)$  by a factor of 4. Conversely,  $f(t/4)$  will expand the time-period of  $f(t)$  by a factor of 4.

## Question

Drift current in semi-conductors (at constant temperature) can be increased by \_\_\_\_\_.

- (A) Increasing applied potential                      (B) Decreasing applied potential
- (C) Increasing surface area                              (D) Decreasing surface area

☐

Option A

☐

Option B

☐

Option C

☐

Option D

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