

**Q. No. 1 – 25 Carry One Mark Each**

1. Consider the following statements regarding the complex Poynting vector  $\vec{P}$  for the power radiated by a point source in an infinite homogeneous and lossless medium.  $\text{Re}\{\vec{P}\}$  denotes the real part of  $\vec{P}$ .  $S$  denotes a spherical surface whose centre is at the point source, and  $\hat{n}$  denotes the unit surface normal on  $S$ . Which of the following statements is **TRUE**?
- (A)  $\text{Re}\{\vec{P}\}$  remains constant at any radial distance from the source  
 (B)  $\text{Re}\{\vec{P}\}$  increases with increasing radial distance from the source  
 (C)  $\oint_S \text{Re}\{\vec{P}\} \cdot \hat{n} dS$  remains constant at any radial distance from the source  
 (D)  $\oint_S \text{Re}\{\vec{P}\} \cdot \hat{n} dS$  decreases with increasing radial distance from the source

**Answer:** - (D)

**Exp:** -  $\oint_S \text{Re}\{\vec{P}\} \cdot \hat{n} dS$  gives average power and it decreases with increasing radial distance from the source

2. A transmission line of characteristic impedance  $50\Omega$  is terminated by a  $50\Omega$  load. When excited by a sinusoidal voltage source at  $100\text{MHz}$ , the phase difference between two points spaced  $2\text{mm}$  apart on the line is found to be  $\frac{\pi}{6}$  radians. The phase velocity of the wave along the line is
- (A)  $0.8 \times 10^8 \text{m/s}$  (B)  $1.2 \times 10^8 \text{m/s}$  (C)  $1.6 \times 10^8 \text{m/s}$  (D)  $3 \times 10^8 \text{m/s}$

**Answer:** - (C)

**Exp:** -  $Z_0 = 50\Omega$ ;  $Z_L = 50\Omega$

For  $\frac{\pi}{6}$  radians the distance is  $2\text{mm}$

$$\text{The phase velocity } v_p = \frac{\omega}{\beta} = \frac{2\pi \times 10^8}{\frac{\pi}{6}} = 6 \times 10^7 = 1.6 \times 10^8 \text{m/s}$$

$(6 \times 10^7)$

3. An analog signal is band-limited to  $4\text{kHz}$ , sampled at the Nyquist rate and the samples are quantized into 4 levels. The quantized levels are assumed to be independent and equally probable. If we transmit two quantized samples per second, the information rate is \_\_\_\_\_ bits / second.
- (A) 1 (B) 2 (C) 3 (D) 4

**Answer:** - (D)

**Exp:** - Since two samples are transmitted and each sample has 2 bits of information, then this information rate is 4 bits/sec.

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**Léo Pomar**



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