# KEAM 2024 June 5 (Day 1) Question Paper (Unofficial)

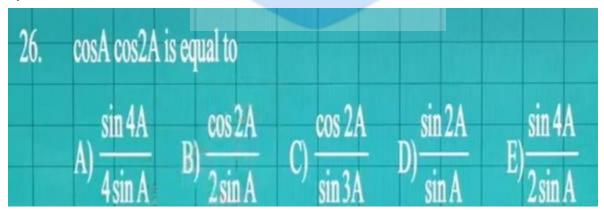
Q. 1

# If $|\vec{A} \cdot \vec{B}| = |\vec{A} \times \vec{B}|$ . Then angle beween $|\vec{A}| \times \vec{B}$

Q. 2

Q. 3

Q. 4



Q. 5

The electromagnetic radiations used in LASIK surgery and cell phone are respectively

## Q. 6

28. Total number of 4 digit numbers greater than 7000 using the digits 2, 5, 7, 8, 9

A) 370 B) 375 C) 475 D) 575 E)

### Q. 7

An object in free fall covers 80m in first 4 seconds. The distance covered in next 4 seconds is

### Q. 8

A body, takes above the surface of the Earth, loses 20% of its weight. The height to which the body is taken is

#### Q. 9

A ray of light passes through a medium with frequency  $4 \times 10^{14}$  Hz and wavelength 450nm. The refractive index of the medium is

#### Q. 10

21. The de-Broglie wavelength associated with an electron accelerated by a potential difference of 3V lies in which region of the electromagnetic spectrium?