Assignment 3

Due: 2020-02-19, 22:59 EST

Problem 1: "At wavelength of light that excited any two beams of light with mean wavelengths of 600 nm and 700 nm in

1) 1000 cm
2) 300 cm
3) 200 cm
4) 100 cm

No, the answer is incorrect.

Problem 2: "Of the following, which of the descriptions NOT match the effect of a combination of harmonic waves to be in

1) time dispersion of the wave
2) harmonic wave basis
3) interaction of different frequencies
4) interaction of waves in the path of wave

No, the answer is incorrect.

Problem 3: "Function of the dominant beam splitter in the setup discussed is to separate

1) light reflection
2) light scattering
3) light transmission
4) time dispersion

No, the answer is incorrect.

Problem 4: "Compared to the resonant mode, the laser in the resonant mode has a better

1) light reflection
2) light scattering
3) time dispersion
4) intensity

No, the answer is incorrect.

Problem 5: "Magic angle for dominant polarization is

1) 0°
2) 15°
3) 30°
4) 45°

No, the answer is incorrect.

Problem 6: "In 3D-aperture experiments,

1) measurement is a better
2) measurement is a factor
3) measurement is a factor
4) measurement is a factor

No, the answer is incorrect.

Problem 7: "Among the following, the measurement that has the best time resolution is

1) stopped flow fluorescence
2) TQPS
3) measurement by small cameras
4) TQPS

No, the answer is incorrect.

Problem 8: "A long pass filter transmits q and reflects q,

1) q = q
2) q ≤ q
3) q ≥ q
4) q ≠ q

No, the answer is incorrect.

Problem 9: "Upon measuring integration time of TQPS experiment,

1) signal integration
2) average signal integration
3) signal to noise ratio becomes better
4) measurement is a factor

No, the answer is incorrect.

Problem 10: "In an illuminated CCD, the microscopical plate (MOPs) acts as

1) filter
2) detector
3) time-gating device
4) discriminator

No, the answer is incorrect.

Problem 11: "In a dark room, the time delay is due to

1) opening window
2) dispersion in time
3) difference in arrival times of photons
4) difference in speed of light of different values

No, the answer is incorrect.