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SN	CRSCODE	QUESTION	OPTION A	OPTION B	OPTION C	OPTION D
1	PHY291	For a coupled system, the angular frequencies of normal modes differs due to the presence of which of the following?	Inducting	Capacitor	Coupling	ular freque
2	PHY291	Why do two oscillators changes periodically during energy transfer from one oscillator to the other	This is because the total energy flows back and forth between the two oscillators	This is because the energy flows back and forth between the two oscillators	This is because the total energy does not flows back and forth between the two oscillators	This is because the total energy flows back between the two oscillators

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3	PHY291	Which of the following methods best describes ways of measuring the periodicity of energy exchange during the oscillation of coupled oscillators?	Displace the oscillator from one edge of the oscillator, then measure the time in which one cycle is completed and if it happens very rapidly, then measure time for 5 or 10 cycles of energy transfer	Displace the oscillator from its mean equilibrium position, then measure the time in which one cycle is completed and if it happens very rapidly, then measure time for 5 or 10 cycles of energy transfer	Displace the oscillator from its mean equilibrium position, then measure the time in which three cycles is completed and if it happens very rapidly, then measure time for 5 or 10 cycles of energy transfer	Displace the oscillator from its mean equilibrium position, then measure the time in which one cycle is completed and if it happens very rapidly, then do not measure time energy transfer
4	PHY291	What happened to the string when a musical instrument is plucked?	It begins t	It begins t	It begins to oscillate and produces sound	It begins to vibrate and produces sound
5	PHY291	The quality of sound produced in a musical instrument depends on which of the following factors?	Frequency of vibration of the stretched string	Amplitude of vibration of the stretched string	Range of vibration of the stretched string	Crest of vibration of the stretched string

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6	PHY291	Why is are t	Because the mass per unit length of the string does not influences the frequency of vibration	Because the current per unit length of the string also influences its crest of vibration	Because the mass per unit length of the string also influences its frequency of vibration	Because the mass per unit length of the string also influences its amplitude of vibration
7	PHY291	What happens to the coupled system when two identical atoms are coupled together?	The coupled system executes oscillations which are the same with the oscillations of independent atoms.	The coupled system executes oscillations which are different from the oscillations of independent atoms.	The coupled system executes oscillations which are different from the oscillations of dependent atoms.	The coupled system executes vibrations which are the same with the oscillations of independent atoms.

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8	PHY291	When a musician tuned his instrument, he moves his fingers, along its string to produce music thereby varying the vibrating length in order to produce different notes. How will this assertion relate to the frequency of vibration of the string?	frequency of vibration of the string depends on its vibrating string since the length of the vibrating segment of the string is related to the wavelength of the stationary wave set up in it	frequency of vibration of the string depends on its vibrating length since the length of the vibrating segment of the string is related to the wavelength of the stationary wave set up in it	frequency of vibration of the string depends on its vibrating length since the length of the vibrating segment of the string is not related to the wavelength of the stationary wave set up in it	frequency of vibration of the string depends on its vibrating length since the length of the vibrating segment of the string is related to the wavelength of the stationary wave set up in it
9	PHY291	The differen	A wave which transports energy as it propagates in space is said to be progressive while for a stationary wave no energy is transported	A wave which transports energy as it propagates in space is said to be stationary, while for a progressive wave no energy is transported	A wave which transports water as it propagates in space is said to be progressive, while for a stationary wave no air is transported	A wave which transports particles as it propagates in space is said to be progressive, while for a stationary wave no fluid is transported

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10	PHY291	Which of the	superposition of two identical progressive waves moving in opposite directions	standing waves do not move with time in either direction.	All the opti	standing waves can be produced in air columns as well as stretched strings

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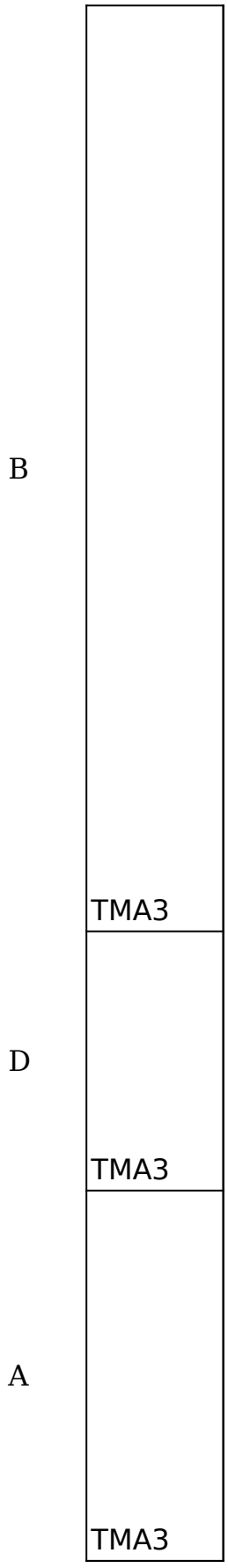

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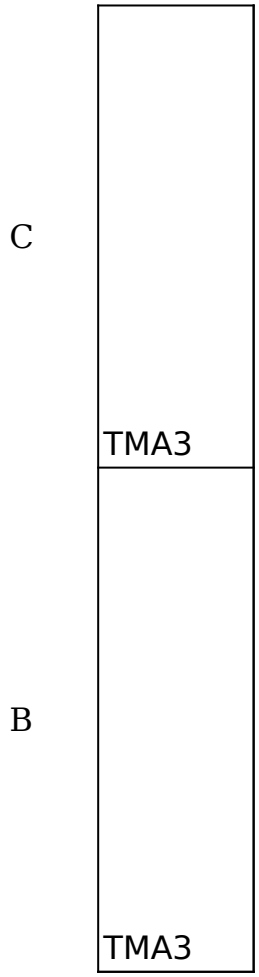

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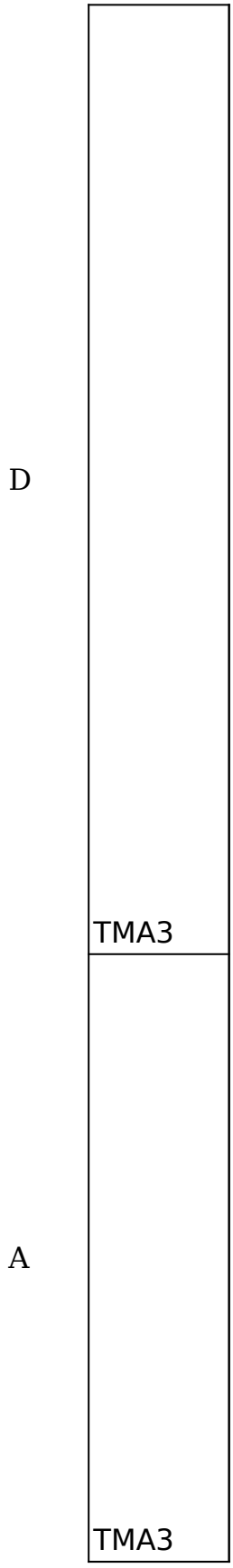

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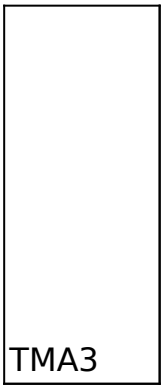

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