**ĐÁP ÁN ĐỀ THI CUỐI HỌC KÌ I NĂM HỌC 2022 – 2023 MÔN VẬT LÍ KHỐI 12**

**Đáp án - Mã đề 122:**

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| **Câu** | **01** | **02** | **03** | **04** | **05** | **06** | **07** | **08** | **09** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** |
| **A** | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ○ | ● | ○ | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| **B** | ○ | ○ | ○ | ○ | ○ | ○ | ● | ● | ○ | ○ | ○ | ● | ○ | ● | ○ | ● | ○ | ○ | ○ | ○ |
| **C** | ○ | ● | ○ | ● | ○ | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ● | ○ | ○ |
| **D** | ○ | ○ | ● | ○ | ● | ○ | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ | ● | ○ | ○ | ○ | ● | ● |

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| **Câu** | **21** | **22** | **23** | **24** | **25** | **26** | **27** | **28** | **29** | **30** | **31** | **32** | **33** | **34** | **35** | **36** | **37** | **38** | **39** | **40** |
| **A** | ● | ● | ○ | ○ | ○ | ○ | ○ | ● | ● | ○ | ○ | ○ | ○ | ○ | ● | ○ | ○ | ○ | ● | ○ |
| **B** | ○ | ○ | ○ | ● | ● | ● | ○ | ○ | ○ | ○ | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| **C** | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ○ | ○ | ○ | ● | ○ | ● | ○ | ● | ○ | ● |
| **D** | ○ | ○ | ● | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ | ○ | ● | ○ | ○ | ○ | ● | ○ | ○ | ○ |

**Đáp án - Mã đề 221:**

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| **Câu** | **01** | **02** | **03** | **04** | **05** | **06** | **07** | **08** | **09** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** |
| **A** | ● | ○ | ○ | ● | ○ | ○ | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| **B** | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● |
| **C** | ○ | ● | ● | ○ | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ | ○ | ○ | ● | ● | ○ | ● | ○ | ○ |
| **D** | ○ | ○ | ○ | ○ | ● | ● | ● | ○ | ○ | ○ | ● | ● | ● | ● | ○ | ○ | ● | ○ | ● | ○ |

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| **Câu** | **21** | **22** | **23** | **24** | **25** | **26** | **27** | **28** | **29** | **30** | **31** | **32** | **33** | **34** | **35** | **36** | **37** | **38** | **39** | **40** |
| **A** | ● | ○ | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ | ○ | ○ | ● | ● | ● | ○ | ● | ○ | ○ | ● |
| **B** | ○ | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| **C** | ○ | ○ | ● | ○ | ○ | ○ | ● | ● | ○ | ● | ● | ○ | ○ | ○ | ○ | ● | ○ | ○ | ● | ○ |
| **D** | ○ | ● | ○ | ● | ○ | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ○ | ○ |

**Đáp án - Mã đề 345:**

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| **Câu** | **01** | **02** | **03** | **04** | **05** | **06** | **07** | **08** | **09** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** |
| **A** | ● | ● | ● | ○ | ● | ○ | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ○ | ● |
| **B** | ○ | ○ | ○ | ○ | ○ | ● | ○ | ● | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| **C** | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ● | ● | ○ | ○ | ● | ○ | ○ | ○ | ○ | ○ | ○ |
| **D** | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ○ | ● | ● | ● | ○ | ● | ○ |

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| **Câu** | **21** | **22** | **23** | **24** | **25** | **26** | **27** | **28** | **29** | **30** | **31** | **32** | **33** | **34** | **35** | **36** | **37** | **38** | **39** | **40** |
| **A** | ○ | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ○ | ● | ○ | ○ | ○ | ● | ○ | ○ | ● |
| **B** | ○ | ○ | ● | ● | ○ | ○ | ● | ○ | ○ | ● | ○ | ○ | ○ | ● | ● | ○ | ○ | ● | ● | ○ |
| **C** | ○ | ○ | ○ | ○ | ○ | ● | ○ | ● | ● | ○ | ○ | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| **D** | ● | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ |

**Đáp án - Mã đề 427:**

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| **Câu** | **01** | **02** | **03** | **04** | **05** | **06** | **07** | **08** | **09** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** |
| **A** | ○ | ○ | ○ | ● | ○ | ● | ○ | ○ | ● | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ | ○ | ● | ● |
| **B** | ○ | ○ | ○ | ○ | ● | ○ | ● | ○ | ○ | ● | ○ | ○ | ○ | ○ | ● | ○ | ○ | ● | ○ | ○ |
| **C** | ○ | ● | ○ | ○ | ○ | ○ | ○ | ● | ○ | ○ | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| **D** | ● | ○ | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ○ | ● | ● | ○ | ○ | ○ |

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| **Câu** | **21** | **22** | **23** | **24** | **25** | **26** | **27** | **28** | **29** | **30** | **31** | **32** | **33** | **34** | **35** | **36** | **37** | **38** | **39** | **40** |
| **A** | ● | ○ | ○ | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ | ● | ○ | ○ |
| **B** | ○ | ○ | ○ | ● | ● | ● | ○ | ○ | ● | ○ | ○ | ○ | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ |
| **C** | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ○ | ● | ○ | ● | ○ | ○ | ● | ○ | ● | ● |
| **D** | ○ | ● | ● | ○ | ○ | ○ | ○ | ● | ○ | ○ | ● | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ | ○ |