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| SỞ GD&ĐT ĐẮK LẮK**TRƯỜNG THPT NGÔ GIA TỰ**(*Không kể thời gian phát đề*) | **ĐÁP ÁN** **MÔN Vật Lý** **– Lớp 10** ***Thời gian làm bài : 45 phút***  |

***Phần đáp án câu trắc nghiệm:***

Tổng câu trắc nghiệm: 32.

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|  | ***001*** | ***002*** | ***003*** | ***004*** |
| **1** | **[0.3125] A**  | **[0.3125] C**  | **[0.3125] B**  | **[0.3125] C**  |
| **2** | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] D**  | **[0.3125] A**  |
| **3** | **[0.3125] A**  | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] C**  |
| **4** | **[0.3125] B**  | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] A**  |
| **5** | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] A**  | **[0.3125] D**  |
| **6** | **[0.3125] B**  | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] C**  |
| **7** | **[0.3125] A**  | **[0.3125] C**  | **[0.3125] A**  | **[0.3125] C**  |
| **8** | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] C**  |
| **9** | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] B**  | **[0.3125] C**  |
| **10** | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] C**  |
| **11** | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] C**  | **[0.3125] A**  |
| **12** | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] A**  |
| **13** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] C**  |
| **14** | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] B**  |
| **15** | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] C**  |
| **16** | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] B**  |
| **17** | **[0.3125] A**  | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] B**  |
| **18** | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] C**  |
| **19** | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] A**  |
| **20** | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] B**  |
| **21** | **[0.3125] B**  | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] C**  |
| **22** | **[0.3125] C**  | **[0.3125] B**  | **[0.3125] C**  | **[0.3125] A**  |
| **23** | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] C**  | **[0.3125] B**  |
| **24** | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] C**  | **[0.3125] D**  |
| **25** | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] B**  |
| **26** | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] C**  |
| **27** | **[0.3125] A**  | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] D**  |
| **28** | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] B**  |
| **29** | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] C**  | **[0.3125] B**  |
| **30** | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] B**  |
| **31** | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] A**  |
| **32** | **[0.3125] B**  | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] D**  |

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|  | ***005*** | ***006*** | ***007*** | ***008*** |
| **1** | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] C**  |
| **2** | **[0.3125] B**  | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] B**  |
| **3** | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] B**  | **[0.3125] B**  |
| **4** | **[0.3125] C**  | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] A**  |
| **5** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] D**  | **[0.3125] B**  |
| **6** | **[0.3125] C**  | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] C**  |
| **7** | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] B**  | **[0.3125] A**  |
| **8** | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] A**  |
| **9** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] C**  | **[0.3125] B**  |
| **10** | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] D**  |
| **11** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] A**  |
| **12** | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] D**  |
| **13** | **[0.3125] B**  | **[0.3125] C**  | **[0.3125] A**  | **[0.3125] A**  |
| **14** | **[0.3125] A**  | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] D**  |
| **15** | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] B**  |
| **16** | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] C**  |
| **17** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] C**  | **[0.3125] A**  |
| **18** | **[0.3125] C**  | **[0.3125] A**  | **[0.3125] D**  | **[0.3125] D**  |
| **19** | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] D**  | **[0.3125] D**  |
| **20** | **[0.3125] C**  | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] B**  |
| **21** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] D**  | **[0.3125] D**  |
| **22** | **[0.3125] C**  | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] D**  |
| **23** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] C**  |
| **24** | **[0.3125] B**  | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] B**  |
| **25** | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] A**  |
| **26** | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] B**  |
| **27** | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] A**  | **[0.3125] B**  |
| **28** | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] D**  |
| **29** | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] B**  | **[0.3125] C**  |
| **30** | **[0.3125] C**  | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] C**  |
| **31** | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] C**  | **[0.3125] C**  |
| **32** | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] B**  | **[0.3125] B**  |

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|  | ***009*** | ***010*** | ***011*** | ***012*** |
| **1** | **[0.3125] A**  | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] C**  |
| **2** | **[0.3125] B**  | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] B**  |
| **3** | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] C**  |
| **4** | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] B**  |
| **5** | **[0.3125] C**  | **[0.3125] B**  | **[0.3125] D**  | **[0.3125] B**  |
| **6** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] D**  |
| **7** | **[0.3125] A**  | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] D**  |
| **8** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] B**  |
| **9** | **[0.3125] B**  | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] B**  |
| **10** | **[0.3125] C**  | **[0.3125] B**  | **[0.3125] D**  | **[0.3125] D**  |
| **11** | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] A**  |
| **12** | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] B**  |
| **13** | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] D**  |
| **14** | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] C**  |
| **15** | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] D**  |
| **16** | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] B**  | **[0.3125] D**  |
| **17** | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] D**  | **[0.3125] C**  |
| **18** | **[0.3125] B**  | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] C**  |
| **19** | **[0.3125] B**  | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] C**  |
| **20** | **[0.3125] B**  | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] D**  |
| **21** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] C**  |
| **22** | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] A**  |
| **23** | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] A**  |
| **24** | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] D**  |
| **25** | **[0.3125] B**  | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] B**  |
| **26** | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] D**  | **[0.3125] B**  |
| **27** | **[0.3125] C**  | **[0.3125] A**  | **[0.3125] C**  | **[0.3125] A**  |
| **28** | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] C**  |
| **29** | **[0.3125] A**  | **[0.3125] C**  | **[0.3125] B**  | **[0.3125] D**  |
| **30** | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] D**  | **[0.3125] D**  |
| **31** | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] B**  |
| **32** | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] A**  |

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|  | ***013*** | ***014*** | ***015*** | ***016*** |
| **1** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] D**  |
| **2** | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] D**  |
| **3** | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] A**  |
| **4** | **[0.3125] A**  | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] A**  |
| **5** | **[0.3125] B**  | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] B**  |
| **6** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] C**  | **[0.3125] B**  |
| **7** | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] A**  |
| **8** | **[0.3125] A**  | **[0.3125] C**  | **[0.3125] A**  | **[0.3125] A**  |
| **9** | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] A**  | **[0.3125] D**  |
| **10** | **[0.3125] C**  | **[0.3125] B**  | **[0.3125] C**  | **[0.3125] C**  |
| **11** | **[0.3125] B**  | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] C**  |
| **12** | **[0.3125] A**  | **[0.3125] C**  | **[0.3125] A**  | **[0.3125] A**  |
| **13** | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] C**  | **[0.3125] D**  |
| **14** | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] A**  | **[0.3125] B**  |
| **15** | **[0.3125] A**  | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] C**  |
| **16** | **[0.3125] B**  | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] D**  |
| **17** | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] C**  |
| **18** | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] A**  |
| **19** | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] C**  | **[0.3125] B**  |
| **20** | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] B**  |
| **21** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] C**  | **[0.3125] C**  |
| **22** | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] C**  | **[0.3125] D**  |
| **23** | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] C**  |
| **24** | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] D**  | **[0.3125] A**  |
| **25** | **[0.3125] C**  | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] A**  |
| **26** | **[0.3125] A**  | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] D**  |
| **27** | **[0.3125] B**  | **[0.3125] C**  | **[0.3125] B**  | **[0.3125] D**  |
| **28** | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] A**  |
| **29** | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] A**  |
| **30** | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] A**  |
| **31** | **[0.3125] B**  | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] B**  |
| **32** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] A**  |

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|  | ***017*** | ***018*** | ***019*** | ***020*** |
| **1** | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] A**  |
| **2** | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] A**  |
| **3** | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] A**  | **[0.3125] C**  |
| **4** | **[0.3125] C**  | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] A**  |
| **5** | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] D**  |
| **6** | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] B**  |
| **7** | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] D**  |
| **8** | **[0.3125] A**  | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] D**  |
| **9** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] C**  |
| **10** | **[0.3125] B**  | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] C**  |
| **11** | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] C**  |
| **12** | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] D**  |
| **13** | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] B**  | **[0.3125] C**  |
| **14** | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] D**  | **[0.3125] D**  |
| **15** | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] D**  |
| **16** | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] D**  |
| **17** | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] B**  |
| **18** | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] A**  |
| **19** | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] C**  |
| **20** | **[0.3125] A**  | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] D**  |
| **21** | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] C**  |
| **22** | **[0.3125] A**  | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] B**  |
| **23** | **[0.3125] A**  | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] B**  |
| **24** | **[0.3125] C**  | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] D**  |
| **25** | **[0.3125] A**  | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] D**  |
| **26** | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] D**  |
| **27** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] C**  |
| **28** | **[0.3125] B**  | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] A**  |
| **29** | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] B**  |
| **30** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] C**  |
| **31** | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] B**  |
| **32** | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] C**  |

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|  | ***021*** | ***022*** | ***023*** | ***024*** |
| **1** | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] A**  |
| **2** | **[0.3125] B**  | **[0.3125] D**  | **[0.3125] A**  | **[0.3125] B**  |
| **3** | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] B**  |
| **4** | **[0.3125] B**  | **[0.3125] C**  | **[0.3125] B**  | **[0.3125] A**  |
| **5** | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] B**  |
| **6** | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] D**  |
| **7** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] D**  |
| **8** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] D**  | **[0.3125] C**  |
| **9** | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] B**  |
| **10** | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] C**  |
| **11** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] C**  |
| **12** | **[0.3125] B**  | **[0.3125] C**  | **[0.3125] B**  | **[0.3125] B**  |
| **13** | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] A**  | **[0.3125] B**  |
| **14** | **[0.3125] C**  | **[0.3125] A**  | **[0.3125] D**  | **[0.3125] A**  |
| **15** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] A**  |
| **16** | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] A**  |
| **17** | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] B**  |
| **18** | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] A**  |
| **19** | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] D**  | **[0.3125] A**  |
| **20** | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] A**  | **[0.3125] C**  |
| **21** | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] D**  | **[0.3125] B**  |
| **22** | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] C**  | **[0.3125] C**  |
| **23** | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] A**  |
| **24** | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] B**  |
| **25** | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] B**  |
| **26** | **[0.3125] D**  | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] D**  |
| **27** | **[0.3125] D**  | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] B**  |
| **28** | **[0.3125] C**  | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] D**  |
| **29** | **[0.3125] B**  | **[0.3125] A**  | **[0.3125] A**  | **[0.3125] C**  |
| **30** | **[0.3125] A**  | **[0.3125] B**  | **[0.3125] B**  | **[0.3125] D**  |
| **31** | **[0.3125] A**  | **[0.3125] C**  | **[0.3125] C**  | **[0.3125] D**  |
| **32** | **[0.3125] C**  | **[0.3125] D**  | **[0.3125] B**  | **[0.3125] C**  |