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| **TRƯỜNG TH, THCS, THPT****SÀI GÒN GIA ĐỊNH** | **ĐÁP ÁN KIỂM TRA HỌC KÌ I – NĂM HỌC 2023 - 2024****MÔN: TOÁN – LỚP 11****Thời gian làm bài: 90 phút** |

 |  |

 **Họ và tên học sinh**:………………………………………**Lớp**:……….**Mã đề …..** |  |

1. **PHẦN TRẮC NGHIỆM (4 điểm)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Câu** | **101** | **102** | **103** | **104** |
| **1** | **A** | **A** | **A** | **A** |
| **2** | **B** | **B** | **C** | **C** |
| **3** | **A** | **D** | **C** | **C** |
| **4** | **A** | **C** | **A** | **D** |
| **5** | **C** | **A** | **C** | **B** |
| **6** | **A** | **A** | **C** | **A** |
| **7** | **C** | **C** | **A** | **C** |
| **8** | **C** | **A** | **D** | **D** |
| **9** | **D** | **C** | **D** | **D** |
| **10** | **D** | **D** | **C** | **B** |
| **11** | **B** | **A** | **D** | **C** |
| **12** | **B** | **B** | **C** | **A** |
| **13** | **C** | **D** | **C** | **D** |
| **14** | **B** | **D** | **B** | **C** |
| **15** | **C** | **B** | **A** | **A** |
| **16** | **D** | **A** | **C** | **A** |

1. **TỰ LUẬN (6 điểm)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Câu** | **Đáp án** | **Điểm**  | **Ghi chú** |
| **Câu 1. (1đ)** | $$a) \cos(\left(x+\frac{π}{3}\right))=\frac{\sqrt{3}}{2}$$$⇔x+\frac{π}{3}=\frac{π}{6}+k2π,k\in Z$ hoặc $x+\frac{π}{3}=-\frac{π}{6}+k2π,k\in Z$ | **0.25đ** |  |
|  |  |
| $$⇔x=-\frac{π}{6}+k2π,k\in Z hoặc x=-\frac{π}{2}+k2π,k\in Z$$ | **0.25đ** |
| b) $\tan(\left(2x+\frac{π}{4}\right))=0⇔2x+\frac{π}{4}=kπ,k\in Z$$$⇔x=-\frac{π}{8}+k\frac{π}{2},k\in Z$$ | **0.25đ****0.25đ** |
| **Câu 2 (1đ)** | 1.

= 768 | **0.25đ****0.25đ** |  |
| 1.

=-1023 | **0.25đ****0.25đ** |
| **Câu 4 (2đ)**  |  | **0.5đ****0.5đ** |  |
|  |  | **0.25****0.25****0.5** |  |
| **Câu 5 (2đ)** |  | **0.25đ** |  |
|  | **0.25đ** |
|  | **0.5đ** |
|  | **0.5đ** |
|  | **0.5đ** |

**HẾT**