

**ĐÁP ÁN KIỂM TRA HỌC KỲ I – NĂM HỌC 2018 – 2019**  
**Môn : TOÁN 12**

**PHẦN I. TRẮC NGHIỆM (30 câu - 6 điểm)**

**Đáp án mã đề: 201**

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**Đáp án mã đề: 202**

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**Đáp án mã đề: 203**

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**Đáp án mã đề: 204**

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## II. PHẦN TỰ LUẬN (4 điểm)

**Câu 1. Tính  $I = \int x.e^x .dx$  (1 điểm)**

$$\text{Đặt: } \begin{cases} u = x \\ dv = e^x dx \end{cases} \Rightarrow \begin{cases} du = dx \\ v = e^x \end{cases} \quad 0,25+0,25$$

$$I = x e^x - \int e^x dx = x e^x - e^x + C \quad 0,25+0,25$$

**Câu 2. Giải phương trình  $9^x + 2.3^x - 3 = 0$  (1 điểm)**

$$\text{Đặt: } t = 3^x, t > 0 \quad 0,25$$

$$\text{Pt} \Leftrightarrow t^2 + 2t - 3 = 0 \Leftrightarrow \begin{cases} t = 1 & (n) \\ t = -3 & (l) \end{cases} \quad 0,25+0,25$$

$$\Leftrightarrow 3^x = 1 \Leftrightarrow x = 0 \quad 0,25$$

**Câu 3. Giải phương trình  $\log_3(3-x) + \log_3(1+x) = 1$  (1 điểm)**

$$\text{ĐK: } -1 < x < 3 \quad 0,25$$

$$\text{Pt} \Leftrightarrow \log_3(3-x)(1+x) = 1 \quad 0,25$$

$$\Leftrightarrow -x^2 + 2x = 0 \Leftrightarrow \begin{cases} x = 0 & (n) \\ x = 2 & (n) \end{cases} \cdot \text{Vậy: } \begin{cases} x = 0 \\ x = 2 \end{cases} \quad 0,25+0,25$$

**Câu 4. Cho hình hộp chữ nhật ABCD.A'B'C'D' có AB, AA', AC lần lượt là 6, 8, 10. Tính thể tích khối hộp chữ nhật ABCD.A'B'C'D'. (1 điểm)**

$$+ \text{Vẽ hình} \quad 0,25$$

$$+ BC = 8 \quad 0,25$$

$$+ V_{ABCD.A'B'C'D'} = AB.BC.AA' = 384 \quad 0,25+0,25$$