

**ĐÁP ÁN KIỂM TRA HỌC KỲ I - NĂM HỌC 2020 - 2021**  
**Môn : TOÁN 12**

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

**Đáp án mã đề: 201**

- |   |   |   |   |
|---|---|---|---|
| 01. <input type="radio"/> B <input type="radio"/> <input type="radio"/>                       | 09. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 17. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 25. <input type="radio"/> B <input type="radio"/> <input type="radio"/> <input type="radio"/> |
| 02. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 10. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 18. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 26. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> |
| 03. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 11. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 19. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 27. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       |
| 04. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 12. <input type="radio"/> <input type="radio"/> B <input type="radio"/> <input type="radio"/> | 20. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 28. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> |
| 05. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 13. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 21. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 29. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       |
| 06. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 14. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 22. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 30. <input type="radio"/> <input type="radio"/> B <input type="radio"/> <input type="radio"/> |
| 07. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 15. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 23. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> |   |
| 08. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 16. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 24. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> |   |

**Đáp án mã đề: 202**

- |   |   |   |   |
|---|---|---|---|
| 01. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 09. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 17. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 25. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> |
| 02. <input type="radio"/> <input type="radio"/> B <input type="radio"/> <input type="radio"/> | 10. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 18. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 26. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       |
| 03. <input type="radio"/> <input type="radio"/> B <input type="radio"/> <input type="radio"/> | 11. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 19. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 27. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       |
| 04. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 12. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 20. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 28. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       |
| 05. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 13. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 21. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 29. <input type="radio"/> <input type="radio"/> B <input type="radio"/> <input type="radio"/> |
| 06. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 14. <input type="radio"/> <input type="radio"/> B <input type="radio"/> <input type="radio"/> | 22. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 30. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       |
| 07. <input type="radio"/> <input type="radio"/> B <input type="radio"/> <input type="radio"/> | 15. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 23. <input type="radio"/> <input type="radio"/> B <input type="radio"/> <input type="radio"/> |   |
| 08. <input type="radio"/> <input type="radio"/> B <input type="radio"/> <input type="radio"/> | 16. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 24. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       |   |

**Đáp án mã đề: 203**

- |   |   |   |   |
|---|---|---|---|
| 01. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 09. <input type="radio"/> <input type="radio"/> B <input type="radio"/> <input type="radio"/> | 17. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 25. <input type="radio"/> <input type="radio"/> B <input type="radio"/> <input type="radio"/> |
| 02. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 10. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 18. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 26. <input type="radio"/> <input type="radio"/> B <input type="radio"/> <input type="radio"/> |
| 03. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 11. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 19. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 27. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> |
| 04. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 12. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 20. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 28. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> |
| 05. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 13. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 21. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 29. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> |
| 06. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 14. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 22. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 30. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> |
| 07. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 15. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 23. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> |   |
| 08. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 16. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 24. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       |   |

**Đáp án mã đề: 204**

- |   |   |   |   |
|---|---|---|---|
| 01. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 09. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 17. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 25. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       |
| 02. <input type="radio"/> <input type="radio"/> B <input type="radio"/> <input type="radio"/> | 10. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 18. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 26. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       |
| 03. <input type="radio"/> <input type="radio"/> B <input type="radio"/> <input type="radio"/> | 11. <input type="radio"/> <input type="radio"/> B <input type="radio"/> <input type="radio"/> | 19. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 27. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       |
| 04. <input type="radio"/> <input type="radio"/> B <input type="radio"/> <input type="radio"/> | 12. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 20. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 28. <input type="radio"/> <input type="radio"/> B <input type="radio"/> <input type="radio"/> |
| 05. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 13. <input type="radio"/> <input type="radio"/> B <input type="radio"/> <input type="radio"/> | 21. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 29. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       |
| 06. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 14. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 22. <input type="radio"/> <input type="radio"/> B <input type="radio"/> <input type="radio"/> | 30. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       |
| 07. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       | 15. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> | 23. <input type="radio"/> <input type="radio"/> <input type="radio"/> D                       |   |
| 08. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 16. <input type="radio"/> A <input type="radio"/> <input type="radio"/> <input type="radio"/> | 24. <input type="radio"/> <input type="radio"/> C <input type="radio"/> <input type="radio"/> |   |

**PHẦN II. TỰ LUẬN (4 câu - 4 điểm)**

**Câu 1.** Tìm tập xác định của hàm số  $y = (x^2 - 3x)^{\frac{3}{4}}$ . (1 điểm)

• Hsxd  $\Leftrightarrow x^2 - 3x > 0$  •  $\Leftrightarrow x < 0$  hay  $x > 3$  • Vậy, TXĐ:  $D = (-\infty; 0) \cup (3; +\infty)$  0,25 x 4

**Câu 2.** Giải phương trình  $4^{x-1} = \frac{1}{8}$ . (1 điểm)

•  $\Leftrightarrow 2^{2(x-1)} = 2^{-3}$  •  $\Leftrightarrow 2(x-1) = -3$  •  $\Leftrightarrow x = -\frac{1}{2}$  • Vậy, pt có nghiệm  $x = -\frac{1}{2}$  0,25 x 4

(Hoặc •  $4^{x-1} = \frac{1}{8} \Leftrightarrow x-1 = \log_4 \frac{1}{8}$  •  $\Leftrightarrow x-1 = \frac{-3}{2}$  •  $\Leftrightarrow x = -\frac{1}{2}$ )

**Câu 3.** Tìm tọa độ giao điểm của đường cong (C):  $y = x^3 - 2x^2 + 1$  và đường thẳng (d):  $y = x - 1$ .

• Pthđđ:  $x^3 - 2x^2 + 1 = x - 1$  0,25

•  $\Leftrightarrow x^3 - 2x^2 - x + 2 = 0 \Leftrightarrow \begin{cases} x = -1 \\ x = 2 \\ x = 1 \end{cases}$  0,25

Vậy có 3 giao điểm •  $(-1; -2)$ ,  $(2; 1)$  và •  $(1; 0)$  0,25 x 2

**Câu 4.** Cho một hình nón có thiết diện qua trục là một tam giác đều cạnh bằng 6. Tính thể tích của khối nón. (1 điểm)

• Vẽ hình 0,25

• Thiết diện qua trục là tam giác SAB đều cạnh bằng 6  $\Rightarrow r = OA = \frac{AB}{2} = 3$  0,25

•  $h = 3\sqrt{3}$  0,25

•  $V = \frac{1}{3} \pi r^2 h = 9\sqrt{3}\pi$  0,25