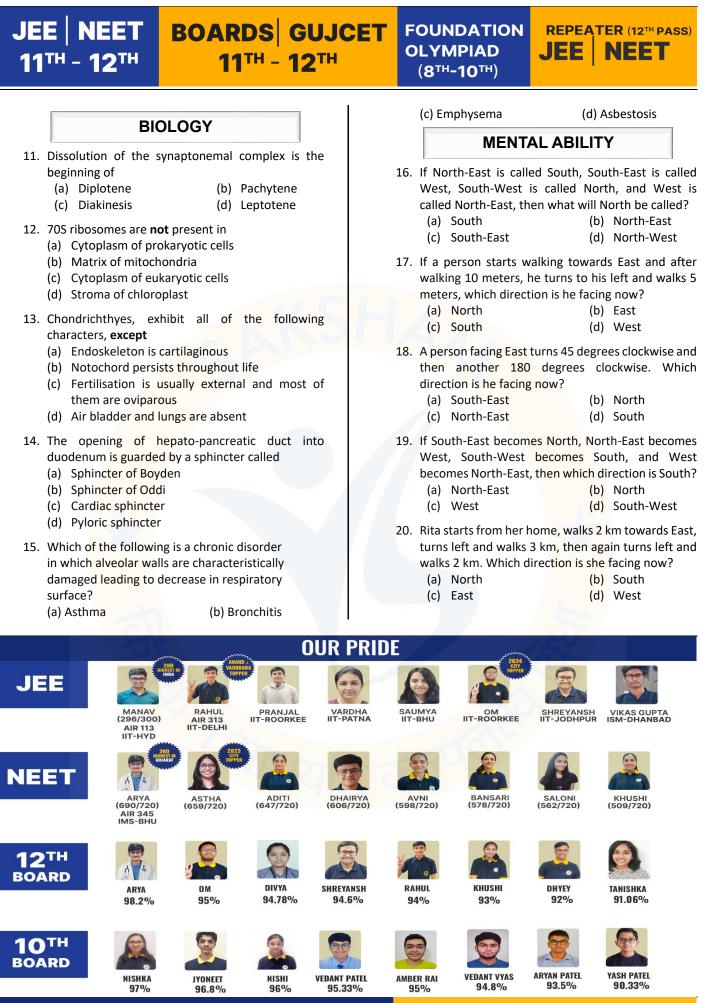




JEE | NEET | GUJCET | BOARDS (11TH-12TH) | FOUNDATION (8TH-10TH) **TEST PAPER M.M-80** MAX TIME: 40 MIN CODE-Instructions: Each question carries 4 marks and are only one correct answer type questions. CLASS - XII (NEET) (a) Diffusion of adhesive glue into the glass PHYSICS (b) Chemical reaction at the adhesive tape – glass interface. 1. Various optical processes are involved in the (c) Refractive index of adhesive glue is close to formation of a rainbow. Which of the following that of glass provides the correct order in time in which these (d) Adhesive tape is more transparent than glass. processes occur? (a) Refraction, total internal reflection, refraction 5. An earthen pitcher used in summer cools water in (b) Total internal reflection, refraction, total it essentially by evaporation of water from its internal reflection. porous surface. If a pitcher carries 4 kg of water and (c) Total internal reflection, refraction, refraction. the rate of evaporation is 20 g per hour, (d) Refraction, total internal reflection, total temperature of water in it decreases by ΔT in two internal reflection. hours. The value of ΔT is close to (ratio of latent of evaporation to specific heat of water is 540 °C) 2. A specially designed vernier calliper has the main (a) 2.7 °C (b) 4.2 °C scale least count of 1 mm. On the vernier scale, (c) 5.4 °C (d) 10.8°C there are 10 equal divisions and they match with 11 main scale divisions. Then, the least count of the CHEMISTRY vernier calliper is 6. The strength of '10 volume' solution of Hydrogen (a) 0.1 mm (b) 0.909 mm (c) c. 1.1 mm (d) 0.09 mm peroxide is nearly (a) 35 g/L (b) 45 g/L 3. A student in a town in India, where the price per (c) 30 g/L (d) 40 g/L unit (1 unit = 1 kW-Hr) of electricity is Rs. 5.00. 7. The oxidation state of central carbon atom in C_3O_2 Purchases a 1 kVA UPS (uninterrupted power supply) battery. A day before the exam, 10 friends is (b) 0 arrive at the student's home with their laptops and (a) +2 all connect their laptops to the UPS. Assume that (d) +3 (c) +4 each laptop has a constant power requirement of 90 W. Consider the following statements. 8. 1 mol of an ideal gas expanded reversibly from 10 L I .All the 10 laptops can be powered by the UPS if to 100 L at 27°C. Work done involved in the process connected directly. is II. All the 10 laptops can be powered if connected (a) -11.5 kJ (b) -5.74 kJ (c) -57.4 kJ (d) -109.8 kJ using an extension box with a 3 A fuse. III. If all the 10 friends use the laptop for 5 hours, Molar solubility of Zn(OH)₂ in 0.1 M NaOH solution then the cost of the consumed electricity is about 9. Rs.22.50. is $(Ksp Zn(OH)_2 = 1 \times 10^{-15})$ (a) 10⁻⁹ M (b) 10⁻¹³ M Select the correct option with true statements. (c) 10⁻¹⁴ M (d) 10⁻¹⁵ M (a) I only (b) I and II only (c) I and III only (d) II and III only 10. If 10 g He diffuses from a tiny hole in 2s, then 4. Frosted glass is widely used for translucent amount of SO₂ diffused from same tiny hole windows. The region where a transparent adhesive in 5s at same temperature and pressure tape is stuck over the frosted glass becomes conditions will be transparent. The most reasonable explanation for (a) 50g (b) 100g (d) 40g this is (c) 1.56g YOU ARE THE CREATOR OF YOUR OWN DESTINY. BEST OF LUCK! BE SAKSHAM!

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