

SRMJEEE 2025 Question Paper - Memory Based

Time Allowed :2 hours 30 minutes	Maximum Marks :125	Total Questions :125
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General Instructions for SRMJEEE 2025

Read the following instructions carefully and follow them strictly:

1. The SRMJEEE 2025 question paper consists of multiple-choice questions (MCQs) covering topics from Physics, Chemistry, Mathematics/Biology, English, and Aptitude.
2. The question paper is divided into five sections:
 - Section A: Physics
 - Section B: Chemistry
 - Section C: Mathematics (or Biology for Biotechnology aspirants)
 - Section D: English
 - Section E: Aptitude
3. There are a total of 125 questions in the paper.
4. Each question carries 1 mark. There is no negative marking for incorrect answers.
5. All questions are compulsory.
6. Write your Roll Number, Name, and Signature in the designated spaces on the OMR sheet.
7. The duration of the examination is 2 hours and 30 minutes.
8. No additional time will be provided for filling out personal details on the OMR sheet.

1. The molar conductivities at infinite dilution for NaSO, KSO, KCl, HCl, and HCOONa at 300 K are 260, 308, 150, 426, and 105 S·cm²·mol⁻¹, respectively. What will be the molar conductivity at infinite dilution () for formic acid in the same unit?

- (a) 480
 - (b) 429
 - (c) 430
 - (d) 405
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2. Markovnikov's rule is applicable to which of the following reactions?

- (a) Addition of HBr to propene
- (b) Addition of HBr to propene in the presence of peroxides
- (c) Addition of Br to ethene
- (d) Hydroboration-oxidation of alkenes

3. A current of 2 A passes through a coil of 100 turns, producing a magnetic flux of 5×10 Wb per turn. What is the magnetic energy associated with the coil?

- (a) 5×10^{-3} J
 - (b) 6×10^{-3} J
 - (c) 5×10^{-6} J
 - (d) 7×10^{-3} J
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4. Calculate the Reynolds number for a liquid with density 1 g/cm³ and viscosity 8×10 Pa·s, flowing at 0.5 m/s through a pipe of diameter 4 cm.

- (a) 40,000
- (b) 25,000
- (c) 30,000
- (d) 28,000

5. A box contains 5 red balls and 7 blue balls. Two balls are drawn at random without replacement. What is the probability that both balls are red?

- (a) $\frac{11}{33}$
- (b) $\frac{10}{35}$
- (c) $\frac{12}{33}$
- (d) $\frac{5}{33}$

6. If 'APPLE' is written as 'ELPPA', how is 'ORANGE' written in that language?

- (a) EGNAGO
 - (b) FGNARO
 - (c) EGNARO
 - (d) EGGARO
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7. A company's sales increased by 20% in 2022 compared to 2021 and by 25% in 2023 compared to 2022. If the sales in 2021 were 10 lakhs, what were the sales in 2023?

- (a) 15 lakhs
- (b) 18 lakhs
- (c) 20 lakhs
- (d) 25 lakhs

8. Choose the word most similar in meaning to 'Ubiquitous':

- (a) Rare
 - (b) Omnipresent
 - (c) Unique
 - (d) Obsolete
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9. Identify the grammatically correct sentence:

- (a) She don't like to play tennis.
 - (b) He doesn't likes to read books.
 - (c) They doesn't go to school on Sundays.
 - (d) He doesn't like to read books.
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