TS EAMCET 2025 May 2 Shift 2 Question Paper

| **Time Allowed :**3 Hours | **Maximum Marks : 160** | **Total Questions :**160 |

General Instructions

Read the following instructions very carefully and strictly follow them:

1. This question paper comprises 160 questions.

2. The Paper is divided into three parts- Biology, Physics and Chemistry.

3. There are 40 questions in Physics, 40 questions in Chemistry and 80 questions in Biology.

4. For each correct response, candidates are awarded 1 marks.

1. Find the value of k **such that** $5 \cdot 2^n - 48n + k$ **is divisible by 24.**

---

2. Which of the following statements are correct?

(1) $0.1\,\text{M KCl}$ solution will have the same osmotic pressure as $0.1\,\text{M glucose}$ solution.

(2) $0.1\,\text{M KCl}$ solution will have the same boiling point as $0.1\,\text{M urea}$ solution.

(3) $0.1\,\text{M glucose}$ and $0.1\,\text{M urea}$ are isotonic.

(4) $0.1\,\text{M MgCl}_2$ solution will have less relative lowering of vapor pressure than $0.1\,\text{M NaCl}$.