## Syllabus for TG EAPCET 2025-E Stream (Engineering Stream)

## **MODEL QUESTIONS – CHEMISTRY**

1.	Half life of a first order reaction is 15min. The time required for completion of 87.5% of the reaction is			
	(1) 15 min	(2) 30 min	(3) 60 min	(4) 45 min
2.	Arrange the following I) $C_2H_5NH_2$ (1) I < II < IV < III (3) I < IV < III < II	II) $C_6H_5NH_2$ (2) II <		-
3.	Which of the followin (1) Sulphur	-	ron gain enthalpy? (3) Flourine (4) Ox	ygen
4.	<ul> <li>Assertion (A): H<sub>2</sub>O is liquid and H<sub>2</sub>S is gas at room temperature</li> <li>Reason (R) : Molecules of H<sub>2</sub>O are highly associated through hydrogen bonding</li> <li>The correct answer is:</li> <li>(1) Both (A) and (R) are true and (R) is the correct explanation of (A)</li> <li>(2) Both (A) and (R) are true and (R) is not the correct explanation of (A)</li> <li>(3) (A) is true but (R) is not true</li> <li>(4) (A) is not true but (R) is true</li> </ul>			
5.	Match the following: LIST I (Crystal Syst (A) Cubic (B) Hexagonal (C) Monoclinic (D) Triclinic		LIST II (Axial Angle (I) $\alpha = \beta = 90^{\circ}; \gamma =$ (II) $\alpha \neq \beta \neq \gamma \neq 90^{\circ}$ (III) $\alpha = \beta = \gamma \neq 90^{\circ}$ (IV) $\alpha = \gamma = 90^{\circ}; \beta \neq$ (V) $\alpha = \beta = \gamma = 90^{\circ}$	120°
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The correct match is: (1) A-V, B-I, C-III, D-IV (2) A-IV, B-II, C-V, D-I (3) A-V, B-I, C-IV, D-II (4) A-IV, B-II, C-V, D-III

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