VITEEE 2021 Memory Based Questions and Answers for 28 May Slot 4

Q: Tangents PQ, PR are drawn from P = (5,0) to the ellipse
$$\left(\frac{x^2}{16} + \frac{y^2}{9} = 1\right)$$
. The length of the chord QR is:

- 1. 6/5
- 2. 8/5
- 3. 18/5
- 4. %

Q: Arrange the following compounds in order of increasing dipolement

- I) Toluene II) m-dicholorobenzene III) o-dicholorobenzene Iv) p-dicholorobenzen
 - 1. |<|V<||<|||
 - 2. IV<I<II<III
 - 3. IV<I<III<II
 - 4. IV<||<|<|||

Q: If $f(x)=x^2+2x^2+4x+d$ and $o < b^2 < c$, then in $(-\infty, \infty)$

- 1. f(x) is strictly increasing function
- 2. f(x) has local maxima
- 3. f(x) is strictly decreasing function
- 4. f(x) is bounded

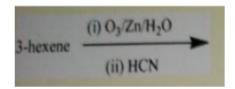
Q: An example of Polysaccharide is

- 1. Maltose
- Cellulose
- Glucose
- 4. Sucrose

Q: Which ion is expected to form colored species?

- 1. Ti4+
- Cr³⁺
- Zn²⁺
- 4. Cu*

Q: The product of the following reaction possesses:



- 1. Both geometric and optical isomerism
- 2. Geometric isomerism
- 3. Optical isomerism
- 4. Structural Isomerism
- Q: Ethers should not be evaporated to dryness as the peroxide formed is:
 - 1. Poisonous
 - 2. Insoluble in water
 - Explosive
 - 4. An air pollutant
- Q: The cis-[(NH₃)₂PtCl₂] is mostly used in
 - 1. Medicine
 - 2. Glass
 - 3. Paint
 - 4. Paper
- Q: A parallel plate capacitor has a capacitance of 80 µF. The area between the plates is filled by 4 identical dielectric slabs with different dielectric constants (3,2,5 and 6). What will be the new capacitance?
 - 1. 5 µF
 - 2. 320 µF
 - 3. 1280 µF
 - 4. 20 µF