

# VITEEE 2022 July 1 Question Paper

## (Memory-Based)

**Ques.** Write down the structure of picric acid

**Ques.** The orthocentre of the triangle formed by the lines... lies in which quadrant

**Ques.** Coin is tossed till heads is obtained what is expectation of no. of coin tosses(1,2,3,0)

**Ques.** Which alkali give red colour on flame test

**Ques.** What is Acrolein?

**Ques.** Photocell is present in?

**Ques.**  $\cos x + y \cos x \cos x - y$  are in hp then  $\cos x \cdot \sec y / 2$  is

A)  $\sqrt{3}$

B)  $\sqrt{2}$

C) 1

D)  $1/\sqrt{2}$

**Ques.** Volatility of following solutions :  $\text{H}_2\text{O}$  ,  $\text{H}_2\text{Se}$ ,  $\text{H}_2\text{Te}$ ,  $\text{H}_2\text{PO}$

**Ques.** The probability of getting atleast 4 heads from 6 chances of tossing a coin

**Ques.** In English unseen passage from flamingo class 12th book

**Ques.** The half-life period of a radioactive element X is same as the mean lifetime of another radioactive element Y. Initially, both of them have the same number of atoms. Then...

**Ques.** 3 dies are thrown find the probability of all 3 faces having different numbers(5/9)

**Ques.** Which isotope is used in cancer treatment

**Ques.** Which of the following is the root modification

**Ques.** Which of the following lanthanides are in tv screen Eu/Ce/Tb/Dy

**Ques.** The area between  $y = x^2$  and  $y = 8 - x^2$

**Ques.** Which element has more electron gain enthalpy among chalcogen group?

**Ques.** Antenna with frequency... transmit max energy at distance..

**Ques.** What is degree of dissociation of 0.05 N  $\text{NH}_3$  if pKa is 4.75 and pH is 11 (2%, 0.2%, 0.5%, 5%)

**Ques.** A projectile launched vertically from the earth with speed... hits satellite at the height... moving with speed... If both have the same mass M what is the common velocity if

they move together after the collision?

**Ques.** If object is viewed through liquid of  $n=4/3$ , 6 cm long object at height 10cm...apparent height? Apparent dist? (7.5 same height; 2.5, 4cm long object; 2.5, 6cm long object)

**Ques.** When P is connected to the positive terminal and n is connected to the negative terminal then it is?

**Ques.** Number of odd days's up to the year 2000