CSIR NET 2022 Chemical Sciences Memory Based Question

$M + N + M \times N$

Q. $m + n + (m \times n) = 118$

Then what will be $M + N$

Q. Train run 36km/hr. It crosses a mark a platform in 4 sec and crosses the platform in 20 seconds. What is the length of platform.

Q.

$$\boxed{\log x = x - \frac{10{,}000}{T}} \rightarrow \text{Predict Ea}$$

Q. Father's age is 5 years more than mother's age. The mother's present age is three times her daughter's age. The present age of the daughter is 12 years. What was the age of the father when the daughter was born?

पिता की आयु माँ की आयु से 5 वर्ष अधिक है। माँ की वर्तमान आयु उसकी पुत्री की आयु से तीन गुना है। पुत्री की वर्तमान आयु 12 वर्ष है। पुत्री के जन्म के समय पिता की आयु कितनी थी?

Q. No. of microstates corresponding to 4F term ?

Q. Hemerythrin hemocyanin electron transport risky protein azurin electron transport tyrosinase cytochrome oxygenase

Q. S_3^6 and S_6^3 → correct operation

Q. Which molecule is IR active but not microwave active?

HCl

N_2

C_2H_2

Q. Maximum no. of phases present in a 1 component system that can coexist together

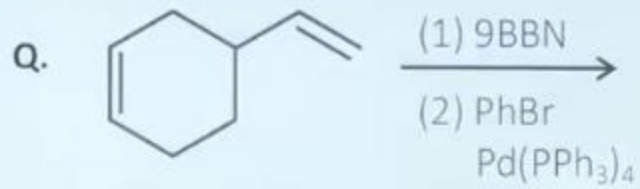Q. Which molecule is IR active but not microwave active?

HCl

N_2

C_2H_2

Q. ML5 arrangement predict point group and the symmetry of orbitals

Q. In 3 Fe ferredoxin, no. of sulfide bridge and cys ligand.

Q.

(1) 9BBN

(2) PhBr
   Pd(PPh$_3$)$_4$

Q. Find commutator value for $[x, p_x^2]$

Q. Effective magnetic moment (Meff) for F^{10} configuration

Q. Cv value

Q. Ma2b2cd no of enantiomeric pairs

Q. Find commutator value for $[x, p_x^2]$

Q. Effective magnetic moment (Meff) for F^{10} configuration

Q. C lies Mon, Tue, and wed and speak truth rest of the days and B speak lie fri, sat and sun. At what day when both lie.

Q. $\log k = 14.1 - \dfrac{10000}{T}$. Find value of Ea ?

Q. In 3 Fe ferredoxin, no. of sulfide bridge and cys ligand.

Q. Effective magnetic moment (Meff) for F^{10} configuration

Q. 12×12 square sheet Cut 4 square and make a tray. What should be the minimum edge of square in order to keep the volume tray mad?

Q. (2) $81^{1/3} \times 81^{1/9} \times 81^{1/27} \times 81^{1/81}$ .... till infinity the value would be

A. 3

B. 9

C. 27

D. 81

Q. The surface tension of dilute soap solutions is lower than pure water becomes

Options are not remembered

Q. Which type of geometry & electron count

Q. M coins need to put in matrix in m×n. What will be the probability to put then so that no coins will be re peated.