CSIR NET 2022 Physical Science

Memory Based Questions

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1. 2 small metallic spheres are inside a conducting medium with conductivity Sigma and permittivity E(epsilon) , connected with battery of potential V. After time T the potential difference between them

2. Spectroscopic terms of LS coupling P2

3. E(0) And E(0)/3 transmitted electric field normally incident light then find refractive incident.

4. Average of [p] will be 0 for which wavefunction

5. lamda ^6 (potential energy) h then find expectation value of energy

6. S' frame is moving with velocity u along x direction. A particle of mass m is moving in s frame, along z direction with velocity v, the energy of particle in S' frame is a place transform of periodic function?

7. Cosax/(x^2+1) integration from -infinity to +infinity from MP

8. According to Hunds rule lowest to highest energy for carbon ?

9. Increasing order of energy btana tha- 2D1,1p2,1p1,1p0

10. Order of pole of 1/z -sin z

11. Pertibation in Harmonic Oscillator exp(-mw/hx^2), Find Energy.

12. A box is partited by a wall ..one have pressure p and volume v and another have pressure 2p and vol 2 v then when partition is open then final pressure

13. (AB) transpose=-(A invrse B) ... B is orthogonal.. than A is

14. Which shape will represent bravice lattice triangle square and hexagonal

15. ssp three shapes were there asking which represents bravice lattice shapes were triangle square and hexagonal

16. z=i^i^i... 1/z. lnz =?

17. L = 1/2mx1dot ^2+1/2m(x2)dot^2 -1/2 K (x1^2 + x 2^2 + x1x2) find normal frequency

18. H=1/2(x1dot) sqre+2(x2dot) sqre+1/2(x1sqre+x2sqre+x1x2) angular freq of small oscillation?

19. 1/(z-sinz) find singularity

20. Integration of exp(-x^2m) where m is +ve limit is 0 to infinity

21. How to detect thermal neutral?

22. Graph Magnetization or uB/KT for paramagnetic material