DIRECT RECRUITMENT OF THE POST OF SENIOR LECTURER, LECTURER, AND JUNIOR LECTURER FOR SCERT – 2016

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1. A) high ac resistance
2. D) 1,0
3. C) the bias value of V_{CE} is less than $(\frac{1}{2})\ V_{cc}$
4. ****
5. A) ionixation and light sensing
6. A) unique inverse
7. D) $Q = p$, $P = -q$
8. A) $\ddot{x} + \frac{K}{m} x = 0$
9. A) Area , Barn
10. B) $h/\sqrt{2mqv}$
11. D) the combination of current Contents of accumulator and flag register.
12. B) gas amplification
13. D) 0.1 %.
14. C) 18.18 %.
15. A) blue region of the visible spectrum
16. A) Electron
17. B) 1
18. A) zero
19. B) div $f = 0$
20. D) $\sqrt{\mu\sigma\omega} < 0^{\circ}$
21. B) n^2
22. D) (iv) (iii) (i) (ii)
23. B) $Q_1 = -Q_2$ and $Q_3 = -Q_4$
24. C) 0
25. B) inversely proportional to the square of the distance of the point
26. D) X - rays.
27. D) $H_0 : \mu = 40$ Against $H_1 : \mu \neq 40$
28. B) linearly independent
29. B) $e^{\pm i\theta}$
30. A) $\frac{n!}{s^{n+1}}$

31. B) $2/5$

32. B) $H = \sum_K p_K \dot{q}_K - L$

33. D) all particles have same wavelength.

34. c) Energy and position

35. A) real eigen values only

36. c) $|(u,v)|^2 \leq (u,u)(v,v)$

37. B) $\frac{1}{S}$

38. B) a simple pole

39. B) $\dot{q}_K = \frac{\partial H}{\partial p_K}$, $\dot{p}_K = -\frac{\partial H}{\partial q_K}$

40. c) $0.6 l_0$

41. B) $3.5\ K_B T_c$

42. D) 12.4 MeV

43. D) 40.104

44. A) $\frac{e\lambda}{2mc}$

45. B) there is gas amplification and the gas amplification factor is 1

46. B) $(+\frac{2}{3}, 0)$

47. D) Azimuthal quantum number.

48. D) tensor forces

49. B) 375 mV

50. * * *

51. A) both a and b are independent of material

52. A) $\simeq 2.6 \times 10^{-47}$ kg m^2

53. A) 1.53 eV

54. A) inversely proportional to temperature of the material

55. c) second order.

56. A) 29.2×10^{15} Hz

57. A) 25 pm

58. B) 45°

59. D) 0.269

60. B) entropy & thermal conductivity decreases

61. B) 189 K

62. D) 6

63. c) Liouville's theorem

64. c) $U = -KT \log z$

65. c) 0.133 Å

66. c) np

67. A) $\frac{V}{h^3}(2mKT)^{3/2}$

68. A) $3/5$

69. A) $\omega = \frac{Be}{2m}$

70. c) $n=3,\ l=0,\ j=\frac{1}{2},\ m_j = \pm\frac{1}{2}$