

GROUP -C (23/9/21)

PHYSICS

1. (b) $3 \times 10^8 \text{m/s}$.
2. (b) 64J
3. (b) $[\text{ML}^2\text{T}^{-2}]$
4. (b) 22km/sec
5. (b) less than 1
6. (a) isochoric process.
7. (d) $20 \pi \text{ m s}^{-1}$
8. (c) both torque & net force.
9. (b) 5
10. (b) 2
11. (a) energy.
12. (d) it is based on experimental measurements.
13. (c) $\frac{1}{\sqrt{3}}$
14. (a) $\frac{2u \sin \theta}{g}$
15. (a) $\frac{u^2}{g}$
16. (c) 50kg m s^{-1}
17. (b) 10m s^{-1}
18. (c) zero
19. (b) 2 : 1.
20. (d) 5.0 V
21. (c) resistance.
22. (d) microwaves.
23. (d) $4f$
24. (c) 24.
25. (a) $\frac{hc}{E}$

CHEMISTRY GROUP -C (23/9/21)

26. (a) CO
27. (c) 6
28. (b) Osmotic pressure
29. (d) 1.212V
30. (a) Zero order
31. (c) Mechanical
32. (b) Magnetite
33. (b) Cl
34. (c) Sc^{3+}
35. (c) $[\text{Cu}(\text{NH}_3)_4]^{2+}$

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SPACE FOR ROUGH WORK

36. (b) N_2
37. (d) Magnetic quantum number
38. (c) Metallic character
39. (b) Polar covalent
40. (a) Boyle's Law
41. (b) 5.26 cal/(mol K)
42. (d) Concentration of H^+ or OH^- are same
43. (c) +7
44. (c) Neutral
45. (d) CH_3F
46. (b) Salicylaldehyde
47. (d) CH_3COCl
48. (a) Benzylamine
49. (c) Adenine and thymine; guanine and cytosine
50. (b) Polytetrafluoroethylene

BIOLOGY GROUP -C (23/9/21)

51. (b) Auto-antigens
52. (d)
53. (b) The wall of Bowman's capsule
54. (d) Function at its place of occurrence
55. (a) 0
56. (b) Stops the larva to feed further
57. (c) GEAC
58. (a) Ponds
59. (b) Habitat loss and fragmentation
60. (c) increases
61. (c) Egg forming embryo without fertilization
62. (c) Metabolism
63. (d) Archegonium megaspore mother cell megaspore embryo sac.
64. (a) Chiropterophilous flowers
65. (d) Ctenophora
66. (b) GIFT
67. (b) 50%
68. (c) 50% red flowers and 50% pink flowers
69. (a) Golgi body
70. (a) Smaller populations
71. (c) Killer T cells
72. (c) cristae
73. (c) Diploid sporophyte
74. (b) Palmately compound leaf
75. (a) 95 decibels
76. Answer: (c) wheat
77. (b) Stenothermal

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78. (d) -ve to =ve: then to -ve
79. (c) semicircular canals
80. (b) Diaphragm and external intercostal muscles
81. (c) Pyramid of energy
82. (a) N
83. (b) Zooplankttooons
84. (a) Duodenum
85. (c) Chromosomes move away towards the poles from the middle.
86. (d) Polygenic inheritance
87. (b) Chrysophytes
88. (b) Roundworm
89. (c) oxygen
90. (c) T:B lymphocytes
91. (b) Hydrogen bonds
92. (a) Diosgenin
93. (a) Intergeneric hybrid
94. (b) aerobic bacteria
95. (c) Barbiturates
96. (d) LSD
97. (b) Agrobacterium tumefaciens
98. (c) separation of DNA fragments according to their size
99. (a) On inner membrane
100. (c) Phosphate fertilizer

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11/1/21