

NDA PREMIUM MOCK TEST (GENERAL ABILITY TEST)

1. C; Replace 'gone' with 'go'
2. A; 'Remove 'does not'
3. A; Replace 'were' with 'had been'
4. A;
5. C;
6. C;
7. B;
8. C; Write 'ever since'
9. C; Replace 'fairly' with 'rather'
10. B; Write 'directly' in place of 'direct'
11. C;
12. B;
13. B;
14. C
15. C
16. C; C;
17. B; B;
18. D; D;
19. B; B;
20. A; A;
21. B; B;
22. B; B;
23. C; C;
24. C; C;
25. D; D;
26. A; A;
27. D; D;
28. A; A;
29. A; A;
30. B; B;
31. C; C;
32. B; B;
33. C; C;
34. C; C;
35. A; A;
36. C; C;
37. G
38. D; D;
39. D; D;
40. D; D;
41. A; A;
42. D; D;
43. D; D;
44. C; C;
45. D; D;
46. A
47. B; B;
48. C; C;
49. B; B;
50. D; D;
51. B; $\left[\frac{g}{R}\right]^{1/2} = \left[\frac{M^0LT^{-2}}{M^0LT^0}\right]^{1/2} = M^0L^0T^{-1} = [\text{angular speed}]$

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52. C; Velocity = $\frac{dx}{dt} = 18 + 18t$. It depends upon time. For $t = wx$, the velocity = $18 + 18 \times 2$
 $ms^{-1} = 54 ms^{-1}$.
53. C; C;
54. C; C;
55. C; Centripetal force = $MR\omega^2$. It is directly proportional to R. If R is doubled, the centripetal force is also doubled.
56. D; For satellite KE = - Total energy = $\frac{1}{2}$ P.E. when so in this case kinetic energy is doubled and the body acquires escape velocity.
57. D; D;
58. A; Stefan's constant $\sigma = 5.67 \times 10^{-8} Wm^{-2}K^{-4}$
 $E = \sigma T^4 = 5.67 \times 10^{-8} \times (1000)^4 Jm^{-2}cm^{-2}$
59. B; The time period of oscillation of a mass attached to the spring is independent of gravity.
60. B; Density of lines of force is proportional to E.
61. B; B;
62. C; Energy dissipated = Power \times time = $1000 W \times 1h = 1 k W h$.
63. A; Energy stored in an inductor = $\frac{1}{2}LI^2 = \frac{1}{2} \times 50 \times 10^{-3} \times (4)^2 = 0.4J$.
64. C; C;
65. (c) Light year is the unit of distance. It is used for expressing astronomical distances.
66. B; Forces are mutually perpendicular, with resultant nearly 36 N.
67. D; D;
68. D; Work energy theorem is always applicable.
69. (d)
70. C; Radius of the earth $\cong 6400 km$. Distance of geostationary satellite $\cong 42000 km$.
71. B; B;
72. B; B;
73. B; $C_3 = \frac{C_1 C_2}{C_1 + C_2}$
74. A; For angle of incidence more than 30° , total internal reflection will occur.
75. A; Refer to explanation for Q. 3. At far away point $B = \frac{\mu_0}{4\pi} \frac{2\pi IR^2}{x^3}$. Hence, when R is doubled, B becomes four times.
76. B; $Q = \frac{V^2}{R} t$. When V decreases, Q also decreases.
77. A; In such a case impedance = resistance.
78. C; C;
79. D; $\xi = \frac{LdI}{dt}$. Here $\xi = 2V$, $dI = 1 A$ and $dt = 10^{-3} s$. Hence $L = 2 m H$.
80. C; C;
81. A; A;

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82. C C;
83. A A;
84. C C;
85. C C;
86. D D;
87. A A;
88. C C;
89. B B;
90. A A;
91. C C;
92. B B;
93. A A;
94. B B;
95. B B;
96. A A;
97. A A;
98. A A;
99. B B;
100. B B;
101. A A;
102. C C;
103. B
104. B B;
105. D D;
106. B
107. A A;
108. C
109. B B;
110. B
111. D
112. A A;
113. D D;
114. B
115. D D;
116. C
117. B B;
118. D
119. C
120. A
121. A
122. A
123. B **B;**
124. D
125. C
126. D **D;**
127. A **A;**
128. A
129. A **A;**
130. D D;
131. B
132. C
133. A

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- 134. B
- 135. A
- 136. D
- 137. C
- 138. D
- 139. A
- 140. C
- 141. B
- 142. A
- 143. C
- 144. B
- 145. C
- 146. B
- 147. A
- 148. A
- 149. A
- 150. D

MAJOR KALSHI CLASSES