Q.10 —

Q.11 20 Question. with 4 marks each.
Max Marks = 20×4 = 80, 50% of Marks = 40
If student solved 12 Quest. correctly R 8 Ques wrongly, he gets 48 − 8 = 40 marks.
If he gets more that 12 correct answers, he gets more than 40 marks.

P = probability of getting a correct Ans = $\frac{1}{4}$

$P(x \geq 12) = P(12) + \cdots + P(20)$

Q12 n = 20
P(5 even) = 2P(5 odd) = 2P(15 even)
Then find P(6)

Q13, 14, 15, 16, 17,

Q18 P = 0.65 n = 10, P(x ≥ 7)

Q19, 20, 21, 22, 23

Q24 P = P(3 or 5) = $\frac{1}{6} + \frac{1}{6} = \frac{2}{6} = \frac{1}{3}$, n = 6
P(3), N = 729, P(x > 3), Q25

Q26 P = 5/7, n = 5, P(x ≤ 4). N = 100, Q25

Q27 X(n, p) Y(m, p) Then X+Y (m+n, p)

Q28

Q29 n = 3, N = 3000 P = 1/2

Q30

Q31 n = 3,
P = getting a 9 = $\frac{4}{36} = \frac{1}{9}$, P(2) Q32

Q33 n = 10 + 4 = 14
x = No of bad eggs. P = $\frac{4}{14}$ n = 6, P = $\frac{10}{100} = 0.1$

Q34 n = 18, P = $\frac{1}{2}$

Q35, 36, 37

Q38 P = prob that A wins the game n = 5, P = $\frac{3}{5}$