Answer Ex–I SINGLE CORRECT (OBJECTIVE QUESTIONS)

1. A	**2.** C	**3.** B	**4.** A	**5.** C	**6.** D	**7.** B	**8.** B
9. B	**10.** D	**11.** A	**12.** A	**13.** B	**14.** C	**15.** C	**16.** D
17. B	**18.** B	**19.** B	**20.** A	**21.** D	**22.** B	**23.** B	**24.** B
25. C	**26.** C						

Answer Ex–II MULTIPLE CORRECT (OBJECTIVE QUESTIONS)

1. A,B	**2.** A,B,C	**3.** B,C,D	**4.** A,C,D	**5.** B,C,D	**6.** B,C	**7.** A,B,C,D

Answer Ex–III SUBJECTIVE QUESTIONS

1. (i) $^{11}C_5 \frac{a^6}{b^5}$ **(ii)** $^{11}C_6 \frac{a^5}{b^6}$ **(iii)** ab = 1 **2.** r = 6 **3.** r = 5 or 9

4. (a) $T_3 = \frac{5}{12}$, **(b)** $T_6 = 7$ **5.** $\frac{(2^{mn}-1)}{(2^n-1)(2^{mn})}$ **7. (i)** 3^n, **(ii)** 1, **(iii)** a_n **9.** x = 0 or 1

10. x = 0 or 2 **11. (a)** 101^{50} (Prove that $101^{50} - 99^{50} = 100^{50}$ + some +ive qty)

12. $1 + \sum_{k=1}^{5} {}^{11}C_{2k} \cdot {}^{2k}C_k \cdot 7^k$ **14. (i)** 990, **(ii)** 3660 **15. (i)** $T_7 = \frac{7.3^{13}}{2}$, **(ii)** 455 x 3^{12}

18. $\frac{17}{54}$ **19.** n = 2 or 3 or 4 **23. (a)** $\frac{n^2+n+2}{2}$

24. (a) $84b^6c^3 + 630ab^4c^4 + 756a^2b^2c^5 + 84a^3c^6$, **(b)** $-1260 \cdot a^2b^3c^4$, **(c)** – 12600

26. $^nC_r (3^{n-r} - 2^{n-r})$ **27. (a)** n = 12, **(b)** $\frac{5}{8} < x < \frac{20}{21}$ **29. (a)** 8016, **(b)** 500

Answer Ex–V JEE PROBLEMS

1. C	**2.** D	**4.** $^{12}C_6$	**5.** B	**6.** –22100
7. C	**8. (a)** A	**9.** D	**10.** A	**11.** C
12. D	**13.** A	**14.** B		