

**Answer Ex-I****SINGLE CORRECT (OBJECTIVE QUESTIONS)**

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

**Answer Ex-II****MULTIPLE CORRECT (OBJECTIVE QUESTIONS)**

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|---------|------------|--------|--------|---------|-------|-------|
| 1. B    | 2. A,B     | 3. A,C | 4. A,B | 5. C    | 6. D  | 7. C  |
| 8. A    | 9. A,B,C,D | 10. A  | 11. C  | 12. B,C | 13. B | 14. A |
| 15. A,B |            |        |        |         |       |       |

**Answer Ex-III****SUBJECTIVE QUESTIONS**

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|--|---|
| 2. (a, 0); a                           | 3. $2x - y + 2 = 0$ , (1, 4); $x + 2y + 16 = 0$ , (16, -16) |
| 5. $3x - 2y + 4 = 0$ ; $x - y + 3 = 0$ | 6. (4, 0); $y^2 = 2a(x - 4a)$                               |
| 8. $y = -4x + 72$ , $y = 3x - 33$      | 9. $7y \pm 2(x + 6a) = 0$                                   |
| 15. $x^2 + y^2 + 18x - 28y + 27 = 0$   | 17. $x - y = 1$ ; $8\sqrt{2}$ sq. units                     |
| 18. $\frac{k-4}{h}$                    | 19. 2   |
|  | 20. $2y - 3 = 0$  |
|  | 22. $a^2 > 8b^2$  |

**Answer Ex-IV****ADVANCED SUBJECTIVE QUESTIONS**

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|-----------------------------|---|------------------------|
| 3. $[a(t_0^2 + 4), -2at_0]$ | 5. $(ax + by)(x^2 + y^2) + (bx - ay)^2 = 0$ | 12. Q(4, -8)           |
| 15. $y^2 = 8ax$             | 18. 5                                       | 19. 9/2                |
|                             |   | 20. $4(3 - 2\sqrt{2})$ |

**Answer Ex-V****JEE PROBLEMS**

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|---|---|--------------------------|
| 1. $x - 2y + 1 = 0$ ; $y = mx + \frac{1}{4m}$ where $m = \frac{-5 \pm \sqrt{30}}{10}$ | 2. (a) C; (b) B   | 3. $(x + 3)y^2 + 32 = 0$ |
| 4. (a) C; (b) D   | 5. C  | 6. D                     |
|   | 7. (a) C; (b) $\alpha = 2$                              | 8. B                     |
| 9. $2(y - 1)^2(x - 2) = (3x - 4)^2$   | 10. (a) D, (b) A, B, (c) (i) A, (ii) B, (iii) D, (iv) C |                          |
| 11. A   | 12. (a) C; (b) B; (c) D                                 | 13. A,D                  |
|   |   | 14. C,D                  |
|   |   | 15. 2                    |
|   |   | 16. C                    |