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For IBPS PO-2017



Algebra

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D.1-5) In the below questions, two equations

I and II are given. You have to solve both the equations and answer the following questions accordingly. If,

a) $x > y$ b) $y > x$

c) $x \leq y$ d) $x \geq y$

e) $x=y$ or Relationship can't be established between x and y .

Q.1) I. $x^2 - 8x + 16 = 0$

II. $y^2 - 17y + 66 = 0$

Q.2) I. $x^2 + 19x - 92 = 0$

II. $y^2 - 8y - 84 = 0$

Q.3) I. $2x^2 + 20x + 42 = 0$

II. $3y^2 + 15y + 18 = 0$

Q.4) I. $2x^2 - x = 28$

II. $3y^2 + 8y - 16 = 0$

Q.5) I. $16x^2 + 12x + 2 = 0$

II. $7y^2 + 16y + 9 = 0$

D.6-10) In the below questions, two equations I and II are given. You have to solve both the equation and answer the following questions accordingly. If,

a) $y > x$

b) $x=y$ or Relationship can't be established between x and y .

c) $y \geq x$ d) $y \leq x$ e) $x > y$

Q.6) I. $5x^2 + 5x - 30 = 0$

II. $4y^2 + 30y + 56 = 0$

Q.7) I. $6x^2 - 42x + 72 = 0$

II. $6y^2 + 6y = 36$

Q.8) I. $4x^2 + 28x + 13 = 0$

II. $3y^2 + 20y - 23 = 0$

Q.9) I. $2x + 3y - 12 = 0$

II. $4x + y = -8$

Q.10) I. $2x^2 + x - 6 = 0$

II. $3y^2 - 15y + 18 = 0$

D.11-15) In the below questions, two equations I and II are given. You have to solve both the equation and answer the following questions accordingly. If,

a) $x \geq y$ b) $x \leq y$ c) $y > x$

d) $x=y$ or Relationship can't be established between x and y . e) $x > y$

Q.11) I. $4x^3 - y^3 = 10$

II. $x^3 + 3y^3 = -15$

Q.12) I. $2x^2 - 7x + 6 = 0$

II. $3y^2 - 7y = -4$

Q.13) I. $x^2 - 454 = 122$

II. $y^2 - 50y = -624$

Q.14) I. $12x^2 + 16x = -5$

II. $4y^2 + 13y + 9 = 0$

D.15-20) In the below questions, two equations I and II are given. You have to solve both the equation and answer the following questions accordingly. If,

a) $x \leq y$ b) $x > y$

c) $x \geq y$ d) $y > x$

e) $x=y$ or Relationship can't be established between x and y .

Q.15) I. $x^2 - 7x = -12$

II. $y^2 - 3y + 2 = 0$

Q.16) I. $x + \frac{3}{2x} = \frac{5}{2}$

II. $\sqrt{y} - \frac{3}{\sqrt{y}} = 0$

Q.17) I. $x^3 = \sqrt[3]{512}$

II. $y^3 = 729$

Q.18) I. $2x^2 + 3y^2 = 5$

II. $4x^2 + 8y^2 = 12$

Q.19) I. $12x^2 - 7x = -1$

II. $6y^2 - 7y + 2 = 0$

Q.20) I. $32x^2 + 24x + 4 = 0$

II. $28y^2 + 39y + 8 = 0$

D.21-25) In the below questions, two equations I and II are given. You have to solve both the equation and answer the following questions accordingly. If,

a) $x=y$ or Relationship can't be established

between x and y . b) $x \leq y$

c) $x \geq y$ d) $x > y$ e) $y > x$

Q.21) I. $2x^2 + 20x + 50 = 0$

II. $y^2 = 25$

Q.22) I. $11x^2 + 19x - 6 = 0$

II. $4y^2 + 12y = 16$

Q.23) I. $7x^2 - 14x - 105 = 0$

II. $6y^2 + 66y + 292 - 112 = 0$

Q.24) I. $2x - 4y + 16 = 0$

II. $4x + 2y = 12$

Q.25) I. $x^2 - 4x - 4x + 15 = 0$

II. $y^2 - 5y = -6$

D.26-30) In the below questions, two equations I and II are given. You have to solve both the equation and answer the following questions accordingly. If,

a) $x \leq y$

b) $x=y$ or Relationship can't be established between x and y . c) $y > x$

d) $x \geq y$ e) $x > y$

Q.26) I. $7x^2 + 6x - 16 = 0$

II. $9y^2 - 22y - 15 = 0$

Q.27) I. $5x^2 + 32x + 12 = 0$

II. $2y^2 + 8y + 8 = 0$

Q.28) I. $x^2 - 234.24 - 161.14 = 133.62$

II. $y = \sqrt[3]{12167}$

Q.29) I. $x = \sqrt{1024}$

II. $y^2 - 62y + 961 = 0$

Q.30) I. $4x^2 - 7x - 15 = 0$

II. $9y^2 + 33y + 18 = 0$

D.31-35) In the below questions, two equations I and II are given. You have to solve both the equation and answer the following questions accordingly. If,

a) $p > q$ b) $q > p$

c) $q \leq p$ d) $p \geq q$

e) $q=p$ or Relationship can't be established between q and p .

Q.31) I. $(p - 13)^2 = 0$

II. $q = \sqrt[3]{1728}$

Q.32) I. $18p^2 + 15p + 3 = 0$

II. $21q^2 + 20q + 4 = 0$

Q.33) I. $3p^2 + 19p + 16 = 0$

II. $6q^2 + 31q + 18 = 0$

Q.34) I. $2p + 3q - 14 = 0$

II. $17p - 12q + 6 = 0$

Q.35) I. $16p - 15q = 22$

II. $2p - 5q = 4$

D.36-40) In the below questions, two equations I and II are given. You have to solve both the equations and answer the following questions accordingly. If,

a) $p > q$

b) $q=p$ or Relationship can't be established between q and p .

c) $q \leq p$ d) $q > p$ e) $p \leq q$

Q.36) I. $p^2 + q^2 = 6$

II. $3p^2 - 5q^2 = 2$

Q.37) I. $p = \sqrt{289}$

II. $q^2 - 34q + 97 = -192$

Q.38) I. $26p^2 - 35p - 6 = 0$

II. $16q^2 + 44q - 12$

Q.39) I. $(p - 2)(p + 4) = 0$

II. $\frac{-3}{\sqrt{q}} - 4\sqrt{q} = q^{\frac{3}{2}}$

Q.40) I. $\frac{p^3 + 10p^2 + 33p + 36}{(p+3)} = 0$

II. $7q^2 + 21q = -14$

D.41-45) In the below questions, two equations I and II are given. You have to solve both the equation and answer the following questions accordingly. If,

a) $q \leq p$ b) $q > p$

c) $q=p$ or Relationship can't be established between q and p .

d) $p \leq q$ e) $p > q$

Q.41) I. $\frac{8}{p^2} - \frac{4}{p} + \frac{3}{p} - \frac{10}{p^2} = \frac{2}{p}$

II. $\frac{2}{q} + \frac{9}{q} + \frac{3}{q^2} - \frac{5}{q} = -\frac{4}{q^2}$

Q.42) I. $p^2 - 17p + 66 = 0$

II. $q^2 - 8q + 15 = 0$

Q.43) I. $p^2 + 11\sqrt{2}p + 60 = 0$

II. $q^2 - 4\sqrt{2}q - 64 = 0$

Q.44) I. $p - \sqrt[3]{2744} = 0$

II. $q + \sqrt{196} = 0$

Q.45) I. $p^3 = 729$

II. $q^2 = 144$

D.46-50) In the below questions, two equations I and II are given. You have to solve both the equation and answer the following questions accordingly. If,

a) $q \geq p$ b) $p \geq q$ c) $p > q$

d) $q=p$ or Relationship can't be established between q and p . e) $q > p$

Q.46) I. $p = \sqrt[3]{2048 \times 2}$

II. $q^3 = 1536 \div 3$

Q.47) I. $p^2 - 986 = 778$

II. $q = \sqrt{1849}$

Q.48) I. $\frac{p^3 + 2p^2 - 20p + 24}{p-2} = 0$

II. $\frac{q^3 + 11q^2 + 32q + 28}{q+2} = 0$

Q.49) I. $p + q - r = 6$

II. $2p + 3q + 2r = 12$

III. $4p + 3q + 4r = 14$

Q.50) I. $96p^2 - 20p + 1 = 0$

II. $52q^2 - 25q = -3$

ANSWER KEY:

1. (b) 2. (e) 3. (c) 4. (e) 5. (a) 6. (e) 7. (e)
8. (b) 9. (a) 10. (a) 11. (e) 12. (e) 13. (b)
14. (e) 15. (b) 16. (d) 17. (d) 18. (e) 19. (d)
20. (e) 21. (b) 22. (a) 23. (d) 24. (e) 25. (c)
26. (b) 27. (b) 28. (a) 29. (e) 30. (b) 31. (a)
32. (e) 33. (e) 34. (b) 35. (a) 36. (b) 37. (b)
38. (b) 39. (b) 40. (d) 41. (e) 42. (e) 43. (b)
44. (e) 45. (c) 46. (c) 47. (e) 48. (d) 49. (e)
50. (e)

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