

Expected Inequality Questions for Upcoming Bank Mains Exam

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Inequality

Directions (1-5): Study the following information and answer the question:

- a) Only I follows
- b) Only III follows
- c) Either II or III and I follows
- d) Either I or III follows
- e) Either I or III and II follows

1. Statement:

$$P \geq V = S < B \leq K; K = R < L \geq H < C \leq T$$

Conclusion:

- I. $P \geq R$
- II. $S < H$
- III. $R > P$

2. Statement:

$$U < S = R \geq Q > P; S > K > H; K < L \leq M > N$$

Conclusion:

- I. $P < K$
- II. $Q \leq M$
- III. $M > H$

3. Statement:

$$D > C \geq B < A; X \leq U < S = L; C < U < L$$

Conclusion:

- I. $B < S$
- II. $A \geq S$
- III. $S > A$

4. Statement:

$$2 < 6 \geq 9 < 5; 7 < 3 = 8 \geq 6; 1 > 3 > 4$$

Conclusion:

- I. $5 > 8$
- II. $2 < 4$
- III. $1 > 9$

5. Statement:

$$E \leq I < R \leq Q = S; M = H \geq Y < O = R < T; X = D \leq Q > F$$

Conclusion:

- I. $H \leq X$
- II. $E < S$
- III. $X < H$

Directions (6 - 10): Study the following information and answer the question:

- a) Only III follows
- b) Only I follows
- c) Only I and either II or III follows

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d) None follows

e) Both II and III follows

6. Statement:

$@ \geq \$ > \# \leq \mathbb{W}; \text{€} > \text{£} = \$ \geq ! < \% ; \& \leq ! \leq \mathbb{Y} > ?$

Conclusion:

I. $\% > \&$

II. $\$ > @$

III. $\mathbb{Y} \geq \text{£}$

7. Statement:

$G < R \leq P = Y > T; X > Q \leq P > Z; U \leq L \geq Q > N = S$

Conclusion:

I. $R < L$

II. $G < T$

III. $S < P$

8. Statement:

$M \leq Q < T = F \geq H; I \leq Y > X = T < N; S \geq L \geq Y \leq R < K$

Conclusion:

I. $K \geq I$

II. $M < K$

III. $S > H$

9. Statement:

$D \geq G > J \leq O = V; C < E \leq J > Z; R > E = B < A$

Conclusion:

I. $D > C$

II. $R \leq O$

III. $O < R$

10. Statement:

$S = N \leq R > P < Q; F < M < P = T \leq Y; H < T < R \geq X$

Conclusion:

I. $H \geq P$

II. $T < H$

III. $F < S$

Directions (11 - 15): Study the following information and answer the question:

a) Only II follows

b) Only I and either II or III follows

c) Both I and III follows

d) None follows

e) Either II or III follows

11. Statement:

$L \geq K > H = N > A \leq V; R \geq D = N \leq O \geq I$

Conclusion:

I. $L > A$

II. $R > H$

III. $R = H$

12. Statement:

$R > Q > P > I = T; L < M \leq U; U > P \geq F = B$

Conclusion:

I. $T < F$

II. $U \geq B$

III. $R > L$

13. Statement:

$U > S \geq T > W < I; E > S \geq Q > R; A = L > E \geq Y > X$

Conclusion:

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I. $R < Y$

II. $W \leq A$

III. $A < W$

14. Statement:

$J \geq H = G > L > P < A$; $E < Y \leq Q < B \leq U$;
 $M > N < H = W \geq Q$

Conclusion:

I. $E < J$

II. $U > L$

III. $Y \leq G$

15. Statement:

$B \geq A \geq C \geq D$; $Q \leq C \geq P$; $W = B > E$

Conclusion:

I. $Q < E$

II. $D \leq W$

III. $P \leq D$

Directions (16 - 20): Study the following information and answer the question:

- a) Only I follows
- b) Only II follows
- c) Both I and II follows
- d) Only I and either II or III follows
- e) Either II or III follows

16. Statement:

$C < D < E > H \leq L = K \leq O$; $P > T = I \leq H \geq M$

Conclusion:

I. $O \geq I$

II. $M \geq T$

III. $P > M$

17. Statement:

$Q < R < W \leq V \geq T$; $M = W < A < B \geq U \geq E$

Conclusion:

I. $M < B$

II. $V > Q$

III. $Q < U$

18. Statement:

$F > G \geq J \leq M = N$; $Q \leq Y < X > Z = M$; $X < P$

Conclusion:

I. $N < P$

II. $Q \leq Z$

III. $Z > Q$

19. Statement:

$O = P \leq D < H > Z$; $X > M \geq U = P < E$; $U = B < I$

Conclusion:

I. $X > O$

II. $E > I$

III. $H < O$

20. Statement:

$N \geq E > M = V > L \leq P$; $W \geq D = V \leq T \geq R$

Conclusion:

I. $N \geq R$

II. $W \geq M$

III. $P < N$

Directions (21 - 25): Study the following information and answer the question:

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A%B means "A is either smaller than or equal to B"

A@B means "A is smaller than B"

A&B means "A is equal to B"

A\$B means "A is either greater than or equal to B"

A*B means "A is greater than B"

- a) Only I follows
- b) Only III follows
- c) Only III and either I or II follows
- d) Either I or II follows
- e) All follows

21. Statement:

M*N\$P; Q&R@P; N%T

Conclusion:

- I. R*N
- II. T\$M
- III. Q@T

22. Statement:

G*H\$I; I@J&K; K@L%M

Conclusion:

- I. G*J
- II. J\$G
- III. I@M

23. Statement:

B@D, D*E, E\$F, F&G, G*H

Conclusion:

- I. G@D
- II. E\$H

III. F@B

24. Statement:

K&L, L*M, M\$N, N@O, O%P, P*Q

Conclusion:

- I. N@Q
- II. M*Q
- III. L*N

25. Statement:

Q\$R@S; S%T@U; U&V*W

Conclusion:

- I. W@U
- II. T*R
- III. S@V

Directions (26 - 30): Study the following information and answer the question:

A×B means "A is either smaller than or equal to B"

A-B means "A is smaller than B"

A#B means "A is equal to B"

A÷B means "A is either greater than or equal to B"

A+B means "A is greater than B"

- a) Both II and III follows
- b) Only III follows
- c) Both I and III follows
- d) Only I and either II or III follows
- e) All follows

26. Statement:

J+K, O×P, N#O, M-N, L×M, K÷L

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Conclusion:

- I. J-M
- II. P÷L
- III. N+L

27. Statement:

$A \# B, C \times D, B - C, E + F, F \div G, D \div E$

Conclusion:

- I. D+A
- II. E×C
- III. G-D

28. Statement:

$M \times N, O \div P, P \# Q, R \div S, Q + R, N \div O$

Conclusion:

- I. S-P
- II. M×Q
- III. Q-M

29. Statement:

$T - U \div V; V \# W + Y; Y \times Z \# L$

Conclusion:

- I. T+Z
- II. Y-U
- III. L÷Y

30. Statement:

$G - H \times I; I \# J + K; K \div L \# M$

Conclusion:

- I. J÷H
- II. M-I

III. J+L

Directions (31 - 35): Study the following information and answer the question:

$A!B$ means "A is neither smaller than nor equal to B"

$A \& B$ means "A is not smaller than B"

$A \% B$ means "A is neither smaller than nor greater than B"

$A \wedge B$ means "A is neither greater than nor equal to B"

$A \# B$ means "A is not greater than B"

- a) Only I follows
- b) Only II follows
- c) Only III and either a or b
- d) Either II or III or I follows
- e) None follows

31. Statement:

$M \& H!O; B!A \% L \# X \% O$

Conclusion:

- I. M!A
- II. M%A
- III. H#B

32. Statement:

$M \wedge A \% L \# I; Y \% X \& I; H \& O!M$

Conclusion:

- I. A^Y
- II. A%Y
- III. Y!M

33. Statement:

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$T\%U\&V; V!X\&N; E\#O^{\wedge}M\#N$

Conclusion:

- I. $E!U$
- II. $E\#U$
- III. $V^{\wedge}E$

34. Statement:

$O\%H\&M\#B\#A; O\#X^{\wedge}Y$

Conclusion:

- I. $A!Y$
- II. $A^{\wedge}Y$
- III. $A\%Y$

35. Statement:

$L\&Y; X\%N\#M^{\wedge}O; O^{\wedge}H\%Y$

Conclusion:

- I. $L!X$
- II. $X!O$
- III. $L\&N$

Directions (36 - 40): Study the following information and answer the question:

$A\epsilon B$ means "A is neither smaller than nor equal to B"

$A\&B$ means "A is not smaller than B"

$A\forall B$ means "A is neither smaller than nor greater than B"

$A\forall B$ means "A is neither greater than nor equal to B"

$A\$B$ means "A is not greater than B"

- a) Only II follows
- b) Both I and II follows

c) Either I or II follows

d) All follows

e) None follows

36. Statement:

$A\epsilon C\&D\$Y; Y\forall B\forall Z\&X$

Conclusion:

- I. $Z\epsilon Y$
- II. $D\forall A$
- III. $B\&X$

37. Statement:

$E\$F\forall G\$H; H\&T\forall U\forall V$

Conclusion:

- I. $H\epsilon E$
- II. $T\forall V$
- III. $E\forall H$

38. Statement:

$I\forall J\&K; K\epsilon L\$Q\forall R\forall S$

Conclusion:

- I. $I\&R$
- II. $I\forall R$
- III. $L\epsilon I$

39. Statement:

$M\$N\forall O\epsilon P\forall Q; Q\epsilon R\&S\forall T$

Conclusion:

- I. $M\forall Q$
- II. $P\epsilon S$
- III. $N\forall R$

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40. Statement:

$GYH\$I\mathbb{W}J; J\mathbb{Y}K\&L\mathbb{Y}M\&N$

Conclusion:

I. $M\$K$

II. $J\in G$

III. $L\mathbb{W}I$

Directions (41 - 42): Study the following information and answer the question:

41. If "+" means subtraction, "-" means division, "x" means addition and "÷" means multiplication, then $20 \div 4 - 8 \times 2 \div 3$ is

- a) 2
- b) 1
- c) 15
- d) 16
- e) None of the above

42. If "+" and "-" are interchanged, then which of the following is false?

- a) $4 - 3 + 2 = 5$
- b) $9 + 6 - 7 = 10$
- c) $2 - 2 + 3 = 1$
- d) $4 - 1 + 3 = 2$
- e) All are true

(43-44): Find the appropriate statement for the given conclusion

43. Conclusion: $A > D, E \leq B$

- a) $A > B \geq D < C < E$
- b) $A > C \geq D < E < B$
- c) $A < B = D \leq C \leq E$

d) $A > B \geq D \geq E < C$

e) None of these

44. Conclusion: $U > Z, V < Y$

- a) $X \geq U > Y \geq V < Z$
- b) $U > Y > Z \leq X < V$
- c) $U > Y \geq Z > X \geq V$
- d) $Y < Z < V < U \geq X$
- e) Both c and d

45. Which of the following expressions is true, if $A \geq D > C < B = E \geq F$?

- a) $F < B$
- b) $A > B$
- c) $A > C$
- d) $A \geq C$
- e) $E < C$

46. If the expression $R < Y \leq H > Q, H \leq Z$ and $Y < K$ are true, which of the following

Conclusion will be definitely false?

- a) $R < K$
- b) $Y \leq Z$
- c) $R > Q$
- d) $R > H$
- e) None of these

(47-48): Which of the following symbols should replace the question mark

47. If $T < S, K > Q$ are true, $K > S \geq V? Y \geq T? Q = V$

- a) $\geq, =$
- b) $>, \leq$

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c) $\geq, >$

d) $\leq, >$

e) Either a or c

48. If $Q \geq F$, $N > R$ are true, $Q \geq T = R ? X \leq F < N$

a) $>$

b) $\geq$

c) $\leq$

d) Either a or b

e) $=$

(49-50): Which of the should be placed in the blank spaces respectively (from left to right)?

49. If $Q < R$ is true, then $__ < __ \leq __ > __$

a) QTSR

b) TQSR

c) RTQS

d) STRQ

e) None of the above

50. If $E > U$ is definitely true, then
E $__ R __ N __ U __ M$

a) $>, =, \leq, =$

b) $<, >, =, \geq$

c) $\geq, >, =, >$

d) $\geq, =, \geq, <$

e) None of the above

Answer with Explanation

1. d

I. False $P \geq R$

II. False

III. False $R > P$ so either I or III follows

2. b

I. False

II. False

III. True $M > H$

3. c

I. True $B < S$

II. False $A \geq S$

III. False $A < S$ so either II or III and I follows

4. b

I. False

II. False

III. True $1 > 9$

5. e

I. False $H \leq X$

II. True $E < S$

III. False $H > X$ so either I or III and II follows

6. b

I. True $\% > \&$

II. False

III. False

7. a

I. False

II. False

III. True $S < P$

8. e

I. FALSE

II. TRUE $M < K$

III. TRUE $S > H$

9. c

I. TRUE $D > C$

II. FALSE $R \leq O$

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III. FALSE $O < R$ So either II or III and I follows

10. d

I. FALSE

II. FALSE

III. FALSE

11. b

I. True $L > A$

II. False $R > H$ Here statement
($R \geq H = N = D$)

III. False $R = H$ So either II or III and I follows

12. d

I. False

II. False

III. False

13. e

I. False

II. False $W \leq A$

III. False $A < W$ so either II or III follows

14. c

I. True $E < J$

II. False

III. True $Y \leq G$ so both I and III follows

15. a

I. False

II. True $D \leq W$

III. False

16. a

I. True $O \geq J$

II. False

III. False

17. c

I. True $M < B$

II. True $V > Q$

III. False

18. a

I. True $N < P$

II. False $Q \leq Z$

III. False $Z > Q$ so I follows

19. a

I. True $X > O$

II. False

III. False

20. b

I. False

II. True $W \geq M$

III. False

21. b

I. False

II. False

III. True $Q < T$

22. c

I. False $G > J$

II. False $J \geq G$

III. True $I < M$ so either I or II and III follows

23. a

I. True $G < D$

II. False

III. False

24. b

I. False

II. False

III. True $L > N$

25. e

I. True $W < U$

II. True $T > R$

III. True $S < V$

26. b

I. False

II. False

III. True $N > L$

27. c

I. True $D > A$

II. False

III. True $G < D$

28. d

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- I. True $S < P$
 II. False $M \leq Q$
 III. False $Q < M$ so I and Either II or III follows
 29. a
- I. False
 II. True $Y < U$
 III. True $L \geq Y$
 30. e
- I. True $J \geq H$
 II. True $M < I$
 III. True $J > L$
 31. a
- I. True $M > A$
 II. False
 III. False
 32. c
- I. False $A < Y$ Here $A \leq Y$
 II. False $A = Y$
 III. True $Y > M$ so either I or II and III follows
 33. e
- I. False
 II. False
 III. False
 34. d
- I. False $A > Y$
 II. False $A < Y$
 III. False $A = Y$ Here all the three inequalities are compared. so it should be Either I or II or III follows
 35. a
- I. True $L > X$
 II. False
 III. False
 36. d
- I. True $Z > Y$
 II. True $P < A$
 III. True $B \geq X$

37. b
- I. True $H > E$
 II. True $T < V$
 III. False
 38. c
- I. False $I \geq R$
 II. False $I < R$
 III. False so either I or II follows
 39. a
- I. False
 II. True $P > S$
 III. False
 40. b
- I. True $M \leq K$
 II. True $J > K$
 III. False
 41. d . $20 \times 4 \div 8 + 2 \times 3 = 16$
42. e
- $4 + 3 - 2 = 5$
 $9 - 6 + 7 = 10$
 $2 + 2 - 3 = 1$
 $4 + 1 - 3 = 2$
- Hence all are true
43. d
- $A > B \geq D$ ($A > D$), $E \leq D \leq B$ ($E \leq B$)
44. c
- $U > Y \geq Z$ ($U > Z$), $Y \geq Z > X \geq V$ ($V < Y$)
45. c
- $R < Y \leq H$ ($R > H$ is definitely false)
46. d $C < B = E$ ($E > C$)
47. e
- $K > S \geq V \geq Y \geq T > Q = V$ ($T < S$, $K > Q$)

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48. e $K > S \geq V \geq Y \geq T = Q = V$ ($T < S$, $K > Q$)

49. d $Q \geq F$, $N > R$ ($Q \geq T = R = X \leq F < N$)

50. c $S < T \leq R > Q$ ($Q < R$)

$E \geq R > N = U \geq M$ ($E > U$)

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