

BANK-PO/CLERK

IBPS, SBI, RBI, IBPS-RRB, LIC, NABARD & ALL OTHER BANKING &INSURANCE EXAMS

Reasoning



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INEQUALITIES

Fundamental Sign

- goreaten than
- Iless than
- equal

Derisud Sign

- Z greater than or equal
- ∠ less than on equal
- ≠ Not equal

I Normal Thequality

Statement: A>B, O≤C, B≥C

Conclusion: I.O<A

DK. B>D

I tome, I False

Codded Inequality

A% B -> A is greater than B A\$B > A is not governer than B.

A % B ⇒ A > B, A \$ B ⇒ A ≤ B

Statement: P% Q, Q\$R, R\$5

Conclusion: I.P%S II.S \$R

Sol + P>Q, QSR, RSS

I. P>Q, Q\$R, R\$S

II 55R

I Tonue, II False

III Filler Based Inequality

- · Half fillers · Fill fillers
- 2- IF A>C, E \(\geq C\) and torue, than, A?B?C?D?E.



Mositive Cooling Janguage

Formand Codded

A yo B -> A is greater than B.

is Smaller than B $A \triangle B \rightarrow A$

A @ B -> A is Smaller than on equal to B.

A @ B -> A is equal to B.

- · Ax B → A>B → ",>
- · A D B -> A <B -> A, <
- · A\$B → A≥B → \$,≥
- · A@ B → A = B → @, =
- A@B -> A = B -> @, =
- * Backward Coded

A % B -> B is greater than A

A * B -> B is greater than on equal to A

A € B → B is Smaller than A The t A × B -> B is Smaller than on equal to A

A @ B -> B is equal to A.

- · A%B→ B>A→%, <
- · A*B→B≥A→*, ≤
- · A € B → B < A → €,>
- · A * B B S A -> ¥, Z
- · A @ B → B = A → @, =

Negative Coding language

- * A # B -> A is not greater than B A % B -> A is not Smaller than B.

 - $A * B \rightarrow A$ is neighter generater how equal to B.
 - A DB -> A is neighter smaller hor equal to B.
 - A € B > A is heightern greater hor smaller than B
 - A @ B -> A is not equal to B

Backward Coded

A
$$*B \rightarrow B$$
 is not Smaller than non equal to A.
A $*B \rightarrow B$ is neighter greater than non equal to A.
A $\Delta B \rightarrow B$ is neighter Smaller than non equal to A.

$$A \otimes B \rightarrow B$$
 is not equal to A.

$$A # B \rightarrow B \Rightarrow A \rightarrow B \leq A \rightarrow \#, \geq$$

$$A \times B \rightarrow B \not= A \rightarrow B \Rightarrow A \rightarrow *, >$$

$$A \triangle B \rightarrow B \neq A \rightarrow B > A \rightarrow \Delta$$

$$\overrightarrow{A > B} \xrightarrow{\text{Close}} \overrightarrow{A \leq B} \xrightarrow{C} \overrightarrow{A}$$

$$\begin{array}{c|c}
\hline
A < B \\
\hline
OPen
\end{array}$$
Close
$$A = B \\
OPen$$



I. Normal Inequality

* Statement: A >B, D < C, B < C, D < E

Conclusion:

· I. 0<A~

I tome, I false

• I • A ≥ D ×

 $\pi \cdot \beta > 0 \times$

II DSBV

I false , II torue

• A>E X II . B >E X

Bath I & II are false

* Statement: PZQZR<S,T<RZM

Conclusion: I. T<PV

AU I, II, III

I. M < 0 V

are torue

* Statement: JKK =T, A ZB >C

Conclusion: I. M ≥J × All I, II & III are

II.C > A X

Tonue

亚.A ZTX

Statement: $A \ge Q \ge T$, M < T, A = P, $M > N \ge Z$

Conclusion: I.P>Z / Bath I & II are

II.NCHV

false ·

Statement: R>S<Q,Q=T, Z<T,Q≥M *

Conclusion: I. 5<TV

I, III ane tonue

II, R>M X

II is Wording

皿・T=Q~

Fill in the blanks.

A>C · A>B>C, APC

· PEQCR, RTR R>P

 M≥N≥0,M?0 M ≥0

• X ≤ Y = Z , X Z $X \leq Z$

· A >B ≥C = D = E, A?D, B = ? E, C?E, A>O, B≥E, C=E



- · A > B < C A ? C Not Defined
- · J = I > K J ? K Not Defined
- · W≥x>y, Z>A W? A Not Defined
- · P≥Q>R, R>S P?T Not Defined
- · S>T≥U< V≥W>Z S?Z Not Defined

Condition of "either - on"

I. (a) Same of Two Conclusion have

- (a) Same Elements.
- (b) Contain all there Signs (>,<,=)
- (c) Condition of not Defined

* Statement: A=B > C, C > D, > E L F

Conclusion :

· I · A ≥ F Same Element \not Defined

II.A < F All Sigh ~

Ether I on II follow

- I. A \geq F Either I on II follows. 10 T
- I. A = F Either I on II follows.
 II. A ≠ F
- · I. AZEX Both I & II are Wrong
 - I.A>EV I is tonue, II is false
 II.A = EX
 - · I. A≥FX (E≠F)

 II. A<E× Both I'd II are Wording
 - ·I: A>F (A=B) II·B≤F Either I on II follows
 - I.A>T Either I on II follows



* Statement: I > A > S < M , S > G < T

Conclusion: I. I>T

II. I ST

→ Either I on II follows.

* Statement: JZK<M, KZN<

Conclusion: I. MzG

X T P N · I

III. M<0

II is true & Either I on II follow

* Statement: X < G>y, Y \(\) M < T

Conclusion: L. X≥M X

II.X S M X

(रेमें Case में कमा भी Eigher on की Gndition नहीं बनेजी)

Both I & II are Wrong

Neither I non II Follows.

Statement: MCNCT, T>K, PXn *

TINEGSh the topper in you

Eithen I on II follows.

Statement: S = G > U < M, U = T *

Conclusion: I.S≥TX

IL ·T<SV

-> I is Worong, II is torus

Statement: P=Q=R<S,T<R<M

Condusion: I.PZT x

II. P<TX

BOUGH BIR II & I 4108 C

Statement: P = Q = R < S, T > R < M

Conclusion: I. P>T

Either I on II on III is tout



II . (a) Element must be Same

(b) One Conclusion Contain Single Sign (>,<) and other

Contain (=) Sign,

(C) Double Sign relation is Satisfied

* Statement: A > B

I.A=B

ash the topper in you

Conclusion: I.A>B

Or II. A<B

II.A=B

* Statement: A=B ≥C, C ≥ D>E<F

Condusion: I. A >D

C=A · I

-> Either I am II fallows,

C=A.I

I. D< A

-> Either I on II follows

I. AZDV

X C=A . IT

→ I is torue, II is false

× C=A .I

 $\pi \cdot \mathfrak{D} > A \times$

-> Both I & II are Wrong

I. A = E X

II. E<A~

→ I is false, I is tonue

I. A>FX

II. A=FX

proceM sie II 8 II AtoB ←

-> Neither I non II follows.

I.A=D

I. B>D

-> Either I am II fallows.



Statement: P>T = T, M = L>N

Conclusion: I.T=M

II. T>M

II. NCP~

Either I on II follows & III is true

Statement; S=G < M < N, T > M < P

Conclusion: I.N>PX

II.S=T

亚.T>S

is false and either I on III follows.

Statement: A < B ≥ G, G > L = M, P ≤ M

Conclusion : I.B=M

II. G>PX

III, B>M

→ II is Wrong, Either I on III follows

Statement: WZX, X<Y, ZZY
Conclusion: I. W=ZXX 51 the t

II. W >Z XX

→ BOHN I & II and Manong

Statement: E>F=G,GZHZQ

Conclusion: I, E = Q X

II, Q = G ~

ゴ・E>O~

-> II is Wordy, II & III both are three true.

(a) Element must be Same 皿

- (b) Both Sign ane Ponesent (opend Close)
- (c) Relation is not equal

* Statement: A >B < C = D 7 E < G

Conclusion: I · C>E

Either I am II fallows



I. C7 6

II. D<6

→ Either I on II follows

* Statement: A ≥ B ≥ C = D < E = F ≠ G

Conclusion $I = A \ge E$

A< E T.

Gither I on II Fallows

 $T \cdot \beta > D$

II. B=D

-> Gither I ON II Follows

I E>0

I.E < Q

-> Gither I on II follows.

Codded Inequality

Dispection:

(i) - P * 0 = P is not greater than Q

(ii) - P+Q = P is not Smaller than Q = +

(iii) - P#Q = P is heither greater non equal to Q

(iv) - P x 0 = P is neither Smaller non equal to 0

(v) - P\$0 = P is neither greater non Smaller than Q.

* Statement: A *B, B#C, C\$D

Conclusion: I. A#O

T.B*D

* Statement: P* Q, R+Q, S\$R

Conclusion: I. P\$S

I. P#S

Aller based Inequality:

Q. Which of two following Conclusion is definity false?



Statement: A = B = C, C = D > E

Conclusion: I.A>D
I.B<D

$$A \ge 0 \longrightarrow A > 0$$
 $A \ge 0 \longrightarrow B > 0$
 $B \ge 0 \longrightarrow B > 0$

→ Only I is definity Wrong.

* रोसे questions में पहले अधीवtion बनाना है , फिर options में Conclusion Check करना है।

* Relation definitly Wrong

		U			F	Not Defined blu
A >B	A <b< td=""><td>AZB</td><td>A≤B</td><td>$\theta = \theta$</td><td>A≠B</td><td>Not Defined 5</td></b<>	AZB	A≤B	$\theta = \theta$	A≠B	Not Defined 5
U) A <b< td=""><td>A>B</td><td>A < B</td><td>A > B</td><td>A > B</td><td>A=B</td><td>Пео</td></b<>	A>B	A < B	A > B	A > B	A=B	Пео
(ii) A=B	A = 8			A < B		None
(iii) A <u>C</u> B	A≥B	1		A≠B		+

(A) Half fillers

* Expression
$$A > C$$
, $E \ge C$ and torue, than $A \ge B$? $C = D$? E

* Exponession
$$A \ge C$$
, $E \ge C$ are torue, than $A \ge B$? $C = D$? E

$$(A) = , < (B) \ge , \le (C) > , \le$$

Statement: A = B = C, C = D > E

Conclusion: I . A > D

I . B < D

$$A \ge 0 \longrightarrow A > 0 \qquad | \beta \ge 0 \longrightarrow \beta > 0$$

$$\beta = 0$$

$$\beta = 0$$

→ Only I is definity Wrong.

* रोसे questions में पहले अधीवtion बनाना है , फिर options में Conclusion Check करना है।

* Relation definitly Wrong

					1	Not Defined blw
A >B	A <b< td=""><td>A >B</td><td>A≤B</td><td>$\beta = A$</td><td>A≠B</td><td>200</td></b<>	A >B	A≤B	$\beta = A$	A≠B	200
(i) A <b< td=""><td>A>B</td><td>A < B</td><td>A > B</td><td>A > B</td><td>A=B</td><td>A E B</td></b<>	A>B	A < B	A > B	A > B	A=B	A E B
(ii) A=B	A = B	14-0	1120	A C B		None
(iii) A≤B	A > Q			A≠B		14017
(117) 17 = 0	1 11 -0	n :	-	H 7 0	1	

(A) Half fillers

* Exponession A > C, $E \ge C$ and torue, than

* Exponession A = C, E = C are tonue, than

$$(A) = 1$$
 $(B) \ge 1$ $(C) > 1$

<u>Sal</u> A ≥ B (≥,=) C = D ≤ E



Practice questions

Directions (1-5): In these questions, relationship between different elements is show in the statements. The statements are followed by conclusions study the conclusions based on the given statements and select the appropriate answer:

- Both conclusion 1 and 11 are true
- (B) Either conclusion 1 or 11 is true
- (c) only conclusion is true
- (D) Neither conclusion I nor II is true
- (E) only conclusion 11 is true

Q.I statements: Z = A 2 C < M, R>Z

conclusions: R>C 1.

11. ASM

sol: (A)

statements: conclusions: 1.

sol: (E)

Q.3 statements: S S K (M > W ≥ Z

conclusions:

1. WKK

z = s11.

sol: (D)

Q. 4 statements: S \(\text{L} \text{ (R, S \(\text{ N, P=N} \)} \)

conclusions: 1.

R ≤ S

11. R (N

sol: (A)

Q.5 statements: L>M2PSS, Q < P, M < K

conclusions:

1. K =L 11. M ≥ Q

sol: (D)



Directions (6-10): In these questions, a relation, relationships, between different elements is shown in the statements. These statements are followed by two conclusions.

- (A) only conclusion I follow.
- (B) only conclusion 11 follows.
- (C) Either conclusion | or || follows.
- (D) Neither conclusion 1 nor 11 follows.
- (E) Both conclusion 1 and 11 follows.
- Q.6 statements: W≥D<M<P<A=F

conclusions:

1. F > D

II. P < W

sol: (A)

Q.7 statements: N > D > F > J; E < L \(\le G \(\le S \(\re F \); G \(\le L \)

conclusions:

1. W < J

11. J ≤ W

sol: (c)

Q.8 statements: V(E=D=W2L; F2S=D(K; L2R =H2B

conclusions:

B(S

11. B = S

sol: (c)

Q.9 statements: $A \ge B$; C = D, E > F, $F \ge D$, B > C

conclusions:

. D)F

II. C≥F

sol: (D)

Q. 10 statements: P(Q)S2R; S>U ST(M; M(B = P)D

conclusions: I. U>R II. T<P

sol: (B)

pirections (11-15): In the following questions, the symbols %, @, #, \$ and * are used with the following meaning as illustrated below:

'P # Q' means 'P is neither smaller than nor equal to Q.'

'P * Q' means 'P is neither greater than nor equal to Q.'

'P \$ Q' means 'P is not greater than Q.'

'P % Q' means 'P is not smaller then Q.'



'P @ Q' means 'P is neither smaller than not greater than Q.'

in each of the following questions, mask answer. According to above symbols and their meaning.

Q. 11	which of the following does	not ma	ke A # c and	D\$F	
	definitely not true?				
	(A) A % B # C @ D \$ E \$ F	(B)	A # B @ C \$D	# E @ F	
	(C) A % B # C @ D \$ E * F	(D)	A % B # C # D	@ E \$ F	
	(E) None of these				
sol:	(c)				
		T			
Q. 12	which of the following make	kes c\$E.	or B % E defir	ritely true?	
	(A) A * B \$ C @ D % E # F	(B)	A # B * C \$ D	@ E # F	
	(C) A # B # C % D % E * F	(D)	A @ B % C @ D	* E * F	
-	(E) None of these				
sol:	(B)				
	10210100	7 A	11 09-V	0 1	
Q. 13	which of the following make	ces A *C 1	znd E # B defi	initely true?	
	(A) A * B \$ C @ D % E # F	(B)	A * D \$ B * C (@ E # F	
	(C) A * B # C % D * E \$ F	(a)	A @ B * D @ C	%E@F	
	(E) None of these				
sol:	(B)				
Q. 14	what will come in place of	blank in	r following be	elow such that	
B * E and F # B are definitely true?					
	A @ B \$ C _ D @ E * F \$ (9			
	(A) @	(B) *		(C) #	
	(D) \$	(E) Non	e of these		
sol:		_			
Q. 15	which of the following make		•		
	(A) A @ B \$ C * D # E * F		A * B @ C % D		
	(C) A % B * C \$ D @ E * F	(D)	A # B % C @ D	* E * F	
	(E) None of these				
sol:	(D)				



Directions (16-20): In the following questions, the symbols +,

x, =, \div and - are used with the following meaning.

- 1. P + a means P is greater than a.
- 2. PX a means P is greater than or equal to a.
- 3. P = a means P is equal to a.
- 4. P ÷ Q means P is smaller than Q.
- 5. P Q means P is either smaller than or equal to Q. Now in each of the following questions assuming the given statements to be true, find which of the two conclusions. I and II given below them is are true, find which give answer.
- (A) If only conclusion is true.
- (B) If only conclusion II is true.
- (c) if either I or II is true.
- (D) If neither 1 nor 11 is true.
- (E) if both 1 and 11 are true.
- Q. 16 statements: U + V, W Y, Y +
 - conclusion: 1. w + u

11. W ÷ V

sol: (D)

Q.17 statements: B ÷ A, D X E, E +A

conclusion: 1. D + A

II. B ÷ E

sol: (E)

Q. 18 statements: SXQ, R+T, R-S

conclusion: I. S + T II. Q = T

sol: (A)

Q.19 statements: M÷N, PXQ, P+N

conclusion: I. N+Q II. N-Q

sol: (c)

Q. 20 statements: $G - H, K \times L, L - G$

conclusion: I. G ÷ K II. L - H

sol: (B)



Q. 21 What is in the place of question mark (?) in the given expression does the expression. K < H and V > K is definitely true?

 $V = 0 \ge L ? K; 0 \le H$

(D) > (E) None of these

sol: (A)

Q. 22 which of the following order of letters in the blanks makes the expression D > E is definitely true?

- (A) B, C, D, E, A
- (B) A, B, C, E, D
- (C) D, B, A, C, E
- (D) E, C, A, B, D
- (E) C, A, D, B, E

sol: (E)

Q. 23 which of the following expressions will be true if the expression? $'z < y \ge w = v'$ is definitely true?

$$(C) \lor \ge Z$$

(c)

< D1 ≤

$$(D)W \leq Z$$

sol: (E)

pirections (24-28): In the following questions, the symbol @, ©, \$, % and * are uses with the following meaning as illustrated below.

'P @ Q' means 'P is not smaller than Q'

'P % Q' means 'P is not greater than Q'

'P * Q' means 'P is neither smaller than nor equal to Q'

'P @ Q' means 'P is neither greater than not smaller than Q'

'P \$ Q' means 'P is neither greater than nor equal to Q'



Now in each of the following questions assuming the given statements to be true, find which of the conclusions 1, 11 and 111 given below then is are definitely true?

Q. 24 statements: F % T, T@ J, J * W

conclusions: I. J@F II. J*F III. W\$T

- (A) only I is true (B) only II is true (C) only III is true
- (B) Only either 1 or 11 is true
 (E)Only either 1 or 11 and 111 are true

sol: (E)

Q. 25 statements: R * D, D @ K, K \$ M

conclusion: I. M*R II. K\$R III. D*M

(A) None is true

(B) only is true

(B) only 11 is true

(D) only III is true

(E) only 11 and 11 are true

sol: (c)

Q. 26 statements: Z @ F, F \$ M, M % K

conclusion I. K*F II. Z*M III. K*Z

- (A) only 1 is true (B) only 11 is true
- (C) Only III is true (D) Only II and III are true (E) None of the above

sol: (A)

Q. 27 statements: H@B, B@R, A\$R

conclusion: I. B * A II. R % H III. A \$ F

- (A) only I and II are true (B) only I and III are true
- (C) only 11 and 111 are true (D) All 1, 11 and 111 are true (E) None of above

sol: (D)

Q. 28 statements: M\$J, J*T, K @ T

conclusion: I. K*J II. M\$T III. M\$K

- (A) None is true
- (B) only is true
- (B) only 11 is true
- (D) only III is true

only 11 and 111 are true

sol: (A)