



1. In a class composed of  $x$  girls and  $y$  boys what part of the class is composed of girls

A.  $y/(x + y)$

B.  $x/xy$

C.  $x/(x + y)$

D.  $y/xy$

Ans.C

2. What is the maximum number of half-pint bottles of cream that can be filled with a 4-gallon can of cream(2 pt.=1 qt. and 4 qt.=1 gal)

A.16

B.24

C.30

D.64

Ans.D

3. If the operation,  $\wedge$  is defined by the equation  $x \wedge y = 2x + y$ , what is the value of  $a$  in  $2 \wedge a = a \wedge 3$

A.0

B.1

C.-1

D.4



Ans.B

4. A coffee shop blends 2 kinds of coffee, putting in 2 parts of a 33p. a gm. grade to 1 part of a 24p. a gm. If the mixture is changed to 1 part of the 33p. a gm. to 2 parts of the less expensive grade, how much will the shop save in blending 100 gms.

A.Rs.90

B.Rs.1.00

C.Rs.3.00

D.Rs.8.00

Ans.C

5. There are 200 questions on a 3 hr examination. Among these questions are 50 mathematics problems. It is suggested that twice as much time be spent on each maths problem as for each other question. How many minutes should be spent on mathematics problems

A.36

B.72

C.60

D.100

Ans.B

6. In a group of 15, 7 have studied Latin, 8 have studied Greek, and 3 have not studied either. How many of these studied both Latin and Greek

A.0

B.3

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C.4

D.5

Ans.B

7. If  $13 = 13w/(1-w)$ , then  $(2w)^2 =$

A.1/4

B.1/2

C.1

D.2

Ans.C

8. If a and b are positive integers and  $(a-b)/3.5 = 4/7$ , then

(A)  $b < a$

(B)  $b > a$

(C)  $b = a$

(D)  $b \geq a$

Ans. A

9. In June a baseball team that played 60 games had won 30% of its game played. After a phenomenal winning streak this team raised its average to 50%. How many games must the team have won in a row to attain this average?

A. 12

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- B. 20
- C. 24
- D. 30

Ans. C

10. M men agree to purchase a gift for Rs. D. If three men drop out how much more will each have to contribute towards the purchase of the gift/

- A.  $D/(M-3)$
- B.  $MD/3$
- C.  $M/(D-3)$
- D.  $3D/(M^2-3M)$

Ans. D

11. A company contracts to paint 3 houses. Mr. Brown can paint a house in 6 days while Mr. Black would take 8 days and Mr. Blue 12 days. After 8 days Mr. Brown goes on vacation and Mr. Black begins to work for a period of 6 days. How many days will it take Mr. Blue to complete the contract?

- A. 7
- B. 8
- C. 11
- D. 12

Ans. C

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12. 2 hours after a freight train leaves Delhi a passenger train leaves the same station travelling in the same direction at an average speed of 16 km/hr. After travelling 4 hrs the passenger train overtakes the freight train. The average speed of the freight train was?

- A. 30
- B. 40
- C. 58
- D. 60

Ans. B

13. If  $9x-3y=12$  and  $3x-5y=7$  then  $6x-2y = ?$

- A. -5
- B. 4
- C. 2
- D. 8

Ans. D

## ANALYTICAL ABILITY

1. If A is to be moved as one of the bookkeepers, which of the following cannot be a possible working unit.

- A. ABDEH
- B. ABDGH
- C. ABEFH

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D.ABEGH

Ans.B

2. If C and F are moved to the new office,how many combinations are possible

A.1

B.2

C.3

D.4

Ans.A

3. If C is sent to the new office,which member of the staff cannot go with C

A.B

B.D

C.F

D.G

Ans.B

4. Under the guidelines developed,which of the following must go to the new office

A.B

B.D

C.E

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D.G

Ans.A

5. If D goes to the new office, which of the following is/are true

I.C cannot go

II.A cannot go

III.H must also go

A.I only

B.II only

C.I and II only

D.I and III only

Ans.D

1. At the first interview the following candidates appear A,B,D. Which of the following combinations can be called for the interview to be held next week.

A.BCD

B.CDE

C.ABE

D.ABC

Ans.B

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2. Which of the following is a possible sequence of combinations for interviews in 2 successive weeks

- A.ABC;BDE
- B.ABD;ABE
- C.ADE;ABC
- D.BDE;ACD

Ans.C

3. If A ,B and D appear for the interview and D is called for additional interview the following week,which 2 candidates may be asked to appear with D?

- I. A
- II B
- III.C
- IV.EA.I and II
- B.I and III only
- C.II and III only
- D.III and IV only

Ans.D

4. Which of the following correctly state(s) the procedure followed by the search committee.I.After the second interview all applicants have appeared at least once

II.The committee sees each applicant a second time

III.If a third session,it is possible for all applicants to appear at least twice

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- A.I only
- B.II only
- C.III only
- D.Both I and II

Ans.A

1. A brown female could have had
  - I. A grandfather born Red
  - II. A grandmother born Red
  - III Two grandfathers born Brown

- (A) I only
- (B) III only
- © I, II and III
- (D) I and II only

Ans. D

2. A male born into the brown group may have
  - (A) An uncle in either group
  - (B) A brown daughter
  - © A brown son

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(D) A son-in-law born into red group

Ans. A

3. Which of the following is not permitted under the rules as stated.

(A) A brown male marrying his father's sister

(B) A red female marrying her mother's brother

© A widower marrying his wife's sister

(D) A widow marrying her divorced daughter's ex-husband

Ans. B

4. If widowers and divorced males retained their group they had upon marrying which of the following would be permissible ( Assume that no previous marriage occurred)

(A) A woman marrying her dead sister's husband

(B) A woman marrying her divorced daughter's ex-husband

© A widower marrying his brother's daughter

(D) A woman marrying her mother's brother who is a widower.

Ans. D

1. The office staff of XYZ corporation presently consists of three bookkeepers--A, B, C and 5 secretaries D, E, F, G, H. The management is planning to open a new office in another city using 2 bookkeepers and 3 secretaries of the present staff . To do so they plan to separate certain individuals who don't function well together. The following guidelines were established to set up the new office

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I. Bookkeepers A and C are constantly finding fault with one another and should not be sent together to the new office as a team

II. C and E function well alone but not as a team , they should be seperated

III. D and G have not been on speaking terms and shouldn't go together

IV Since D and F have been competing for promotion they shouldn't be a team

1.If A is to be moved as one of the bookkeepers,which of the following cannot be a possible working unit.

A.ABDEH

B.ABDGH

C.ABEFH

D.ABEGH

Ans.B

2.If C and F are moved to the new office,how many combinations are possible

A.1

B.2

C.3

D.4



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Ans.A

3.If C is sent to the new office,which member of the staff cannot go with C

A.B

B.D

C.F

D.G

Ans.B

4.Under the guidelines developed,which of the following must go to the new office

A.B

B.D

C.E

D.G

Ans.A

5.If D goes to the new office,which of the following is/are true

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I.C cannot go

II.A cannot go

III.H must also go

A.I only

B.II only

C.I and II only

D.I and III only

Ans.D

2.After months of talent searching for an administrative assistant to the president of the college the field of applicants has been narrowed down to 5--A, B, C, D, E .It was announced that the finalist would be chosen after a series of all-day group personal interviews were held.The examining committee agreed upon the following procedure

I.The interviews will be held once a week

II.3 candidates will appear at any all-day interview session

III.Each candidate will appear at least once

IV.If it becomes necessary to call applicants for additional interviews, no more 1 such applicant should be asked to appear the next week

V.Because of a detail in the written applications,it was agreed that whenever candidate B appears, A should also be present.

VI.Because of travel difficulties it was agreed that C will appear for only 1 interview.

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A certain city is served by subway lines A,B and C and numbers 1 2 and 3 When it snows , morning service on B is delayed When it rains or snows , service on A, 2 and 3 are delayed both in the morning and afternoon When temp. falls below 30 degrees farenheit afternoon service is cancelled in either the A line or the 3 line, but not both. When the temperature rises over 90 degrees farenheit, the afternoon service is cancelled in either the line C or the 3 line but not both. When the service on the A line is delayed or cancelled, service on the C line which connects the A line, is delayed. When service on the 3 line is cancelled, service on the B line which connects the 3 line is delayed.

Q1. On Jan 10th, with the temperature at 15 degree farenheit, it snows all day. On how many lines will service be

affected, including both morning and afternoon.

- (A) 2
- (B) 3
- (C) 4
- (D) 5

Ans. D

Q2. On Aug 15th with the temperature at 97 degrees farenheit it begins to rain at 1 PM. What is the minimum number

of lines on which service will be affected?



- (A) 2
- (B) 3
- (C) 4
- (D) 5

Ans. C

Q3. On which of the following occasions would service be on the greatest number of lines disrupted.

- (A) A snowy afternoon with the temperature at 45 degree fahrenheit
- (B) A snowy morning with the temperature at 45 degree fahrenheit
- (C) A rainy afternoon with the temperature at 45 degree fahrenheit
- (D) A rainy afternoon with the temperature at 95 degree fahrenheit

Ans. B

4. In a certain society, there are two marriage groups, red and brown. No marriage is permitted within a group. On marriage, males become part of their wives groups; women remain in their own group. Children belong to the same group as their parents. Widowers and divorced males revert to the group of their birth. Marriage to more than one person at the same time and marriage to a direct descendant are forbidden