Previous Year Brakes India Reasoning Ability Q&A Paper

Read the following passage and answer the following questions:

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 temperature 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 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

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Q2. 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

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

ANS: B

Directions for questions 4 to 7:

I. All Gs are Hs
II. All Gs are Js or Ks
III. All Js and Ks are Gs
IV. All Ls are Ks
V. All Ns are Ms
VI. No Ms are Gs

Q4. Which of the following is inconsistent with one or more conditions?

(A) All Hs are Gs
(B) All Hs are Ms
(C) Some Hs are both Ms and Gs
(D) No Ms are Hs

ANS: C

Q5. Which of the following can be logically deduced from the stated conditions?

(A) No Ms are Hs
(B) No Hs are Ms
(C) Some Ms are Hs
(D) No Ns are Gs

ANS: D

Q6. The statement: No Ls are Js is

I. Logically deducible from the conditions stated
II. Consistent with but not deducible from the conditions stated
III. Deducible from the stated conditions together with the additional statements No J,s are K,s

(A) I only
(B) II only
(C) III only
(D) II and III only

ANS: D

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Q7. If no Ps are Ks which of the following must be true?

    (A) No P is a G
    (B) No P is an H
    (C) If any P is an H it is a G
    (D) If any P is a G it is a J

ANS: D

Directions for questions 8 to 12:

The office staff of XYZ corporation presently consists of three bookeepers--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 bookeepers and 3 secretaries of the present staff . To do so they plan to seperate certain individuals who do not function well together. The following guidelines were established to set up the new office.

I. Bookeepers 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 should not go together.
IV. Since D and F have been competing for promotion they should not be a team.

Q8. 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

Q9. 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

Q10. If A is to be moved as one of the bookeepers, which of the following cannot be a possible working unit?

     A. ABDEH
     B. ABDGH
     C. ABEFH
     D. ABEGH

ANS: B

Q11. Under the guidelines developed, which of the following must go to the new office?

     A. B
     B. D
     C. E

D. G

ANS: A

Q12. 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

Directions for Questions 13 to 16:

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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Q13. 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.E

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

ANS: D

Q14. 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

Q15. 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

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

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

ANS: A

Q16. 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

Directions for Questions 17 to 20:

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.

Q17. Which of the following is not permitted under the rules as stated.

(A) A brown male marrying his fathers sister
(B) A red female marrying her mothers brother
(C) A widower marrying his wifes sister
(D) A widow marrying her divorced daughters ex-husband

ANS: B

Q18. 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
    (C) I, II and III
    (D) I and II only

ANS: D

Q19. 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 sisters husband
    (B) A woman marrying her divorced daughters ex-husband
    (C) A widower marrying his brothers daughter
    (D) A woman marrying her mothers brother who is a widower.

ANS: D

Q20. A male born into the brown group may have

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(A) An uncle in either group
(B) A brown daughter
(C) A brown son
(D) A son-in-law born into red group

ANS: A