Sample HEC Reasoning Ability Placement Questions And Answers

Directions for questions 1 to 6:

The letters A, B, C, D, E, F and G, not necessarily in that order, stand for seven consecutive integers from 1 to 10, D is 3 less than A B is the middle term F is as much less than B as C is greater than D G is greater than F.

Q1. If A = 7, the sum of E and G is

(a) 8
(b) 10
(c) 12
(d) 14
(e) 16

ANS: (a)

Q2. The greatest possible value of C is how much greater than the smallest possible value of D?

(a) 2
(b) 3
(c) 4
(d) 5
(e) 6

ANS: (a)

Q3. The fifth integer is

(a) A
(b) C
(c) D

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(d) E

(e) F

ANS: (a)

Q4. An integer T is as much greater than C as C is greater than E. T can be written as A + E. What is D?

(a) 2

(b) 3

(c) 4

(d) 5

(e) Cannot be determined

ANS: (a)

Q5. A is as much greater than F as which integer is less than G

(a) A

(b) B

(c) C

(d) D

(e) E

ANS: (a)

Q6. A - F = ?

(a) 1

(b) 2

(c) 3

(d) 4

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(e) Cannot be determined

ANS: (a)

Directions for questions 7 to 10:

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.

Q7. If A, B and D appear for the interview and D is called for additional interview the following week, which 2candidates 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

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ANS: D

Q8. 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

Q9. 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

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

ANS: A

Q10. 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

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D. BDE; ACD

ANS: C

Directions for questions 11 to 14:

Five houses lettered A, B, C, D, & E are built in a row next to each other. The houses are lined up in the order A, B, C, D & E. Each of the five houses has a colored chimney. The roof and chimney of each house must be painted as follows.

i. The roof must be painted either green, red or yellow.
ii. The chimney must be painted either white, black or red.
iii. No house may have the same color chimney as the color of roof.
iv. No house may use any of the same colors that the every next house uses.
v. House E has a green roof.
vi. House B has a red roof and a black chimney

Q11. Which of the following is true?

(a) At least two houses have black chimney.
(b) At least two houses have red roofs.
(c) At least two houses have white chimneys
(d) At least two houses have green roofs
(e) At least two houses have yellow roofs

ANS: (c)

Q12. Which must be false?

(a) House A has a yellow roof
(b) House A & C have different color chimney

(c) House D has a black chimney
(d) House E has a white chimney
(e) House B&D have the same color roof.

ANS: (b)

Q13. If house C has a yellow roof, which must be true?

(a) House E has a white chimney
(b) House E has a black chimney
(c) House E has a red chimney
(d) House D has a red chimney
(e) House C has a black chimney

ANS: (a)

Q14. Which possible combinations of roof & chimney can house?

I. A red roof 7 a black chimney
II. A yellow roof & a red chimney
III. A yellow roof & a black chimney

(a) I only
(b) II only
(c) III only
(d) I & II only
(e) I & II & III

ANS: (e)

Directions for questions 15 to 18:

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For a motorist there are three ways going from City A to City C. By way of bridge the distance is 20 miles and toll is $0.75. A tunnel between the two cities is a distance of 10 miles and toll is $1.00 for the vehicle and driver and $0.10 for each passenger. A two-lane highway without toll goes east for 30 miles to city B and then 20 miles in a northwest direction to City C.

Q15. Which is the shortest route from B to C?

(a) Directly on toll free highway to City C
(b) The bridge
(c) The Tunnel
(d) The bridge or the tunnel
(e) The bridge only if traffic is heavy on the toll free highway

ANS: (a)

Q16. The most economical way of going from City A to City B, in terms of toll and distance is to use the

(a) tunnel
(b) bridge
(c) bridge or tunnel
(d) toll free highway
(e) bridge and highway

ANS: (a)

Q17. Jim usually drives alone from City C to City A every working day. His firm deducts a percentage of employee pay for lateness. Which factor would most influence his choice of the bridge or the tunnel?

(a) Whether his wife goes with him

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(b) scenic beauty on the route

(c) Traffic conditions on the road, bridge and tunnel

(d) saving $0.25 in tolls

(e) price of gasoline consumed in covering additional 10 miles on the bridge

ANS: (a)

Q18. In choosing between the use of the bridge and the tunnel the chief factor(s) would be?

I. Traffic and road conditions

II. Number of passengers in the car

III. Location of ones homes in the center or out skirts of one of the cities

IV. Desire to save $0.25

(a) I only

(b) II only

(c) II and III only

(d) III and IV only

(e) I and II only

ANS: (a)

Directions for questions 19 to 22:

1. All Gs are Hs

2. All Gs are Js or Ks

3. All Js and Ks are Gs

4. All Ls are Ks

5. All Ns are Ms

6. No Ms are Gs

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Q19. If no Ps are Ks, which of the following must be true?

    (a) All Ps are Js
    (b) No P is a G
    (c) No P is an H
    (d) If any P is an H it is a G
    (e) If any P is a G it is a J

ANS: (a)

Q20. Which of the following can be logically deduced from the conditions stated?

    (a) No Ms are Hs
    (b) No Ms that are not Ns are Hs
    (c) No Hs are Ms
    (d) Some Ms are Hs
    (e) All Ms are Hs

ANS: (a)

Q21. Which of the following is inconsistent with one or more of the conditions?

    (a) All Hs are Gs
    (b) All Hs that are not Gs are Ms
    (c) Some Hs are both Ms and Gs
    (d) No Ms are Hs
    (e) All Ms are Hs

ANS: (a)

Q22. The statement No Ls are Js is

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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 statement No Js are Ks

> (a) I only
> (b) II only
> (c) III only
> (d) II and III only
> (e) Neither I, II nor III

ANS: (a)

Directions for questions 23 to 26:

In country X, democratic, conservative and justice parties have fought three civil wars in twenty years. TO restore stability an agreement is reached to rotate the top offices President, Prime Minister and Army Chief among the parties so that each party controls one and only one office at all times. The three top office holders must each have two deputies, one from each of the other parties. Each deputy must choose a staff composed of equally members of his or her chiefs party and member of the third party.

Q23. When Justice party holds one of the top offices, which of the following cannot be true?

> (a) Some of the staff members within that office are justice party members
> (b) Some of the staff members within that office are democratic party members
> (c) Two of the deputies within the other offices are justice party members
> (d) Two of the deputies within the other offices are conservative party members
> (e) Some of the staff members within the other offices are justice party members.

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ANS: (a)

Q24. When the democratic party holds presidency, the staff of the prime ministers deputies are composed?

I. One-fourth of democratic party members
II. One-half of justice party members and one-fourth of conservativeparty members
III. One-half of conservative party members and one-fourth of justice party members.

    (a) I only
    (b) I and II only
    (c) II or III but not both
    (d) I and II or I and III
    (e) None of these

ANS: (a)

Q25. Which of the following is allowable under the rules as stated?

    (a) More than half of the staff within a given office belonging to a single party
    (b) Half of the staff within a given office belonging to a single party
    (c) Any person having a member of the same party as his or her immediate superior
    (d) Half the total number of staff members in all three offices belonging to a single party
    (e) Half the staff members in a given office belonging to parties different from the party of the top office holder in that office.

ANS: (a)

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Q26. The office of the Army Chief passes from Conservative to Justice party. Which of the following must be fired?

(a) The democratic deputy and all staff members belonging to Justice party
(b) Justice party deputy and all his or hers staff members
(c) Justice party deputy and half of his Conservative staff members in the chief of staff office
(d) The Conservative deputy and all of his or her staff members belonging to Conservative party
(e) No deputies and all staff members belonging to conservative parties.

ANS: (a)

Q27. In recommendations to the board of trustees a tuition increase of $500 per year, the president of the university said: There were no student demonstrations over the previous increases of $300 last year and $200 the year before.

If the presidents statement is accurate then which of the following can be validly inferred from the information given:

I. Most students in previous years felt that the increases were justified because of increased operating costs.
II. Student apathy was responsible for the failure of students to protest the previous tuition increases.
III. Students are not likely to demonstrate over new tuition increases.

(a) I only
(b) II only
(c) I or II but not both
(d) I, II and III
(e) None

ANS: (a)

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The office staff of XYZ corporation presently consists of three book keepers--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 book keepers 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. Book keepers 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 sholdnt go together
IV. Since D and F have been competing for promotion they should not be a team

Q28. If A is to be moved as one of the book keepers, which of the following cannot be a possible working unit?

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

ANS: B

Q29. 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

Q30. 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

Q31. Under the guidelines developed, which of the following must go to the new office?

    A. B
    B. D
    C. E
    D. G

ANS: A

Q32. 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

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ANS: D

A certain city is served by subway lines A,B and C and numbers 1 2and 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 the3 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.

Q33. 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

Q34. On Aug 15th with the temperature at 97 degrees farenheit it beginsto 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

Q35. 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 36 to 39:

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.

Q36. 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

Q37. A male born into the brown group may have

(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

Q38. 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

Q39. 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 daughtersex-husband
(C) A widower marrying his brothers daughter
(D) A woman marrying her mothers brother who is a widower.

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ANS: D

Q40. Is x greater than y?

(i) x= 2k
(ii) k= 2y

ANS: (e)

Directions for questions 41 to 45:

There are six steps that lead from the first to the second floor. No two people can be on the same step Mr. A is two steps below Mr. C Mr. B is a step next to Mr. D Only one step is vacant (No one standing on that step) Denote the first step by step 1 and second step by step 2 etc.

Q41. If Mr. A is on the first step, which of the following is true?

    (a) Mr. B is on the second step
    (b) Mr. C is on the fourth step.
    (c) A person Mr. E, could be on the third step
    (d) Mr. D is on higher step than Mr. C.

ANS: (d)

Q42. If Mr. E was on the third step & Mr. B was on a higher step than Mr. E which step must be vacant

    (a) step 1
    (b) step 2

(c) step 4

(d) step 5

(e) step 6

ANS: (a)

Q43. If Mr. B was on step 1, which step could A be on?

(a) 2 & e only

(b) 3 & 5 only

(c) 3 & 4 only

(d) 4 & 5 only

(e) 2 & 4 only

ANS: (c)

Q44. If there were two steps between the step that A was standing and the step that B was standing on, and A was on a higher step than D, A must be on step

(a) 2

(b) 3

(c) 4

(d) 5

(e) 6

ANS: (c)

Q45. Which of the following is false?

i. B&D can be both on odd-numbered steps in one configuration

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ii. In a particular configuration A and C must either both an odd numbered steps or both an even-numbered steps iii. A person E can be on a step next to the vacant step.

    (a) i only
    (b) ii only
    (c) iii only
    (d) both i and iii

ANS: (c)

Directions for questions 46 to 49:

Six swimmers A, B, C, D, E, F compete in a race. The outcome is as follows.
i. B does not win.
ii. Only two swimmers separate E & D
iii. A is behind D & E
iv. B is ahead of E, with one swimmer intervening
v. F is a head of D

Q46. Who stood fifth in the race?

    (a) A
    (b) B
    (c) C
    (d) D
    (e) E

ANS: (e)

Q47. How many swimmers seperate A and F?

    (a) 1

(b) 2

(c) 3

(d) 4

(e) cannot be determined

ANS: (d)

Q48. The swimmer between C & E is

(a) none

(b) F

(c) D

(d) B

(e) A

ANS: (a)

Q49. If the end of the race, swimmer D is disqualified by the Judges then swimmer B finishes in which place

(a) 1

(b) 2

(c) 3

(d) 4

(e) 5

ANS: (b)