Latest HEC Whole Placement Test Question Paper

1. If 2x-y=4 then 6x-3y=?

(a) 15

(b) 12

(c) 18

(d) 10

Ans. (b)

2. If x=y=2z and xyz=256 then what is the value of x?

(a) 12

(b) 8

(c) 16

(d) 6

Ans. (b)

3. (1/10)18 - (1/10)20 = ?

(a) 99/1020

(b) 99/10

(c) 0.9

(d) none of these

Ans. (a)

4. Pipe A can fill in 20 minutes and Pipe B in 30 mins and Pipe C can empty the same in 40 mins.If all of them work together, find the time taken to fill the tank

(a) 17 1/7 mins

(b) 20 mins

(c) 8 mins

(d) none of these

Ans. (a)

5. Thirty men take 20 days to complete a job working 9 hours a day.How many hour a day should 40 men work to complete the job?

(a) 8 hrs

(b) 7 1/2 hrs

(c) 7 hrs

(d) 9 hrs

Ans. (b)

6. Find the smallest number in a GP whose sum is 38 and product 1728

(a) 12

(b) 20

(c) 8

(d) none of these

Ans. (c)

7. A boat travels 20 kms upstream in 6 hrs and 18 kms downstream in 4 hrs.Find the speed of the boat in still water and the speed of the water current?

(a) 1/2 kmph

(b) 7/12 kmph

(c) 5 kmph

(d) none of these

Ans. (b)

Latest HEC Whole Placement Test Question Paper

8. A goat is tied to one corner of a square plot of side 12m by a rope 7m long.Find the area it can graze?

(a) 38.5 sq.m

(b) 155 sq.m

(c) 144 sq.m

(d) 19.25 sq.m

Ans. (a)

9. Mr. Shah decided to walk down the escalator of a tube station. He found that if he walks down 26 steps, he requires 30 seconds to reach the bottom. However, if he steps down 34 stairs he would only

require 18 seconds to get to the bottom. If the time is measured from the moment the top step begins to descend to the time he steps off the last step at the bottom, find out the height of the stair way in

steps?

Ans.46 steps.

10. The average age of 10 members of a committee is the same as it was 4 years ago, because an old member has been replaced by a young member. Find how much younger is the new member ?

Ans.40 years.

11. Three containers A, B and C have volumes a, b, and c respectively; and container A is full of water while the other two are empty. If from container A water is poured into container Bwhich becomes 1/3 full, and into container C which becomes 1/2 full, how much water is left in container A?

12. ABCE is an isosceles trapezoid and ACDE is a rectangle. AB = 10 and EC = 20. What is the length of AE?

Ans. AE = 10.

Latest HEC Whole Placement Test Question Paper

13. In the given figure, PA and PB are tangents to the circle at A and B respectively and the chord BC is parallel to tangent PA. If AC = 6 cm, and length of the tangent AP is 9 cm, then what is the length of the chord BC?

Ans. BC = 4 cm.

15 Three cards are drawn at random from an ordinary pack of cards. Find the probability that they will consist of a king, a queen and an ace. Ans. 64/2210.

16. A number of cats got together and decided to kill between them 999919 mice. Every cat killed an equal number of mice. Each cat killed more mice than there were cats. How many cats do you think there were ?

Ans. 991.

17. If Log2 x - 5 Log x + 6 = 0, then what would the value / values of x be?

Ans. x = e2 or e3.

18. The square of a two digit number is divided byhalf the number.After 36 is added to the quotient, this sum is then divided by 2.The digits of the resulting number are the same as those in the original number, but they are in reverse order. The ten's place of the original number is equal to twice the difference between its digits. What is the number?

Ans. 46

19.Can you tender a one rupee note in such a manner that there shall be total 50 coins but none of them would be 2 paise coins.?

Ans. 45 one paisa coins, 2 five paise coins, 2 ten paise coins, and 1 twenty-five paise coins.

20.A monkey starts climbing up a tree 20ft. tall. Each hour, it hops 3ft. and slips back 2ft. How much time would it take the monkey to reach the top?

Ans.18 hours

.

21. What is the missing number in this series?

Latest HEC Whole Placement Test Question Paper

8 214 6 11 ? 14 6 18 12

Ans. 9

22. A certain type of mixture is prepared by mixing brand A at Rs.9 a kg. with brand B at Rs.4 a kg. If the mixture is worth Rs.7 a kg., how many kgs. of brand A are needed to make 40kgs. of

the mixture?

Ans. Brand A needed is 24kgs.

23. A wizard named Nepo says "I am only three times my son's age. My father is 40 years more than twice my age. Together the three of us are a mere 1240 years old." How old is Nepo?

Ans. 360 years old.

24. One dog tells the other that there are two dogs in front of me. The other one also shouts that he too had two behind him. How many are they?

Ans. Three.

25. A man ate 100 bananas in five days, each dayeating 6 more than the previous day. How many bananas did he eat on the first day?

Ans. Eight.

26. If it takes five minutes to boil one egg, how long will it take to boil four eggs?

Ans. Five minutes.

27. The minute hand of a clock overtakes the hour handat intervals of 64 minutes of correct time. How much a day does theclock gain or lose?

Ans. 32 8/11 minutes.

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28. Solve for x and y: 1/x - 1/y = 1/3, 1/x2 + 1/y2= 5/9.

Ans. x = 3/2 or -3 and y = 3 or -3/2.

29. Daal is now being sold at Rs. 20 a kg. During lastmonth its ratewas Rs. 16 per kg. By how much percent should a family reduce its consumption so as to keep the expenditure fixed?

Ans. 20 %.

30. Find the least value of 3x + 4y if x2y3 = 6.

Ans. 10.

31. Can you find out what day of the week was January 12, 1979?

Ans. Friday.

32. A garrison of 3300 men has provisions for 32 days,when given at arate of 850 grams per head. At the end of 7 days a reinforcement arrives and it was found that now the provisions will last 8 days

less, when given at the rate of 825 grams per head.How, many more men can it feed?

Ans. 1700 men.

33. From 5 different green balls, four different blue balls and three different red balls, how many combinations of balls can be chosen taking at least one green and one blue ball?

Ans. 3720.

34. Three pipes, A, B, & C are attached to a tank. A & B can fill itin 20 & 30 minutes respectively while C can empty it in 15 minutes. If A, B & C are kept open successively for 1 minute

each, how soon will the tank be filled?

Ans. 167 minutes

.

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35. A person walking 5/6 of his usual rate is 40 minutes late. What ishis usual time? Ans. 3 hours 20 minutes.

36.For a motorist there are three ways going from City A to City C. Byway 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.

1. 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)

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

(a) tunnel

(b) bridge

(c) bridge or tunnel

(d) toll free highway

(e) bridge and highway

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Ans. (a)

3. Jim usually drives alone from City C to City Aevery working day.His firm deducts a percentage of employee pay forlateness. Whichfactor would most influence his choice of the bridge

or the tunnel ?

(a) Whether his wife goes with him

(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)

4. 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 one's homes in the center oroutskirts 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

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Ans. (a)

37.The letters A, B, C, D, E, F and G, not necessarilyin that order,stand for seven consecutive integers from 1 to 10D 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

1. The fifth integer is

(a) A

(b) C

(c) D

(d) E

(e) F

Ans. (a)

2. 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)

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

(a) 8

(b) 10

(c) 12

(d) 14

(e) 16

Ans. (a)

4. A - F = ?

(a) 1

(b) 2

(c) 3

(d) 4

(e) Cannot be determined

Ans. (a)

5. 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

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Ans. (a)

6. The greatest possible value of C is how muchgreater than the smallest possible value of D?

(a) 2

(b) 3

(c) 4

(d) 5

(e) 6

Ans. (a)

38.

1. All G's are H's

2. All G's are J's or K's

3. All J's and K's are G's

4. All L's are K's

5. All N's are M's

6. No M's are G's

1. If no P's are K's, which of the following must be true?

(a) All P's are J's

Latest HEC Whole Placement Test Question Paper

(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)

2. Which of the following can be logically deduced

from the conditions

stated?

(a) No M's are H's

(b) No M's that are not N's are H's

(c) No H's are M's

(d) Some M's are H's

(e) All M's are H's

Ans. (a)

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

(a) All H's are G's

(b) All H's that are not G's are M's

(c) Some H's are both M's and G's

(d) No M's are H's

(e) All M's are H's

Ans. (a)

4. The statement "No L's are J's" 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 statement "No J's are K's"

(a) I only

(b) II only

(c) III only

(d) II and III only

(e) Neither I, II nor III

Ans. (a)

39.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.

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1. 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.

Ans. (a)

2. When the democratic party holds presidency, the staff of the prime minister's 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)

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3. Which of the following is allowable under the rulesas 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)

4. 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 membersbelonging 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 herstaff members belonging to Conservative party

(e) No deputies and all staff members belonging to conservative parties.

Ans. (a)

40. 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 president's statement is accurate then which of the following can be validly inferred from the information given:

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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)

41. 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 don't 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 sholdn'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 bookeepers,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

Latest HEC Whole Placement Test Question Paper

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

42.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

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IV. If it becomes necessary to call applicants for additonal 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.

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

A.BCD

B.CDE

C.ABE

D.ABC

Ans.B

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 2candidates may be asked to appear with D?

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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

4. Which of the following correctly state(s) theprocedure followed bythe 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

43. 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 whichconnects the 3 line is delayed.

Q1. On Jan 10th, with the temperature at 15 degreefarenheit, 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 degreesfarenheit 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

Q3. On which of the following occasions would servicebe 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

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Ans. B

44. 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

Q1. 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

Q2. 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

Q3. 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

(C) A widower marrying his wife's sister

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

Ans. B

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Q4. If widowers and divorced males retained their group they had uponmarrying which of the following would be permissible (Assume that noprevious marriage occurred)

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

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

(C) A widower marrying his brother's daughter

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

Ans. D

Q5. I. All G's are H's

II. All G's are J's or K's

III All J's and K's are G's

IV All L's are K's

V All N's are M's

VI No M's are G's

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.

1. 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)

2. 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)

3. 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)

4. 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)

5. Which of the following is falsei. B&D can be both on odd-numbered steps in one configurationii. 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)

46. 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

1. Who stood fifth in the race ?

(a) A

(b) B

(c) C

(d) D

(e) E

Ans: (e)

2. How many swimmers seperate A and F ?

(a) 1

(b) 2

(c) 3

(d) 4

(e) cannot be determined

Ans: (d)

3. The swimmer between C & E is

(a) none

(b) F

(c) D

(d) B

(e) A

Ans: (a)

4. 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)

47. Five houses lettered A,B,C,D, & E are built in arow 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 housemust 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

1. 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)

2. Which must be false ?

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(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)

3. 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)

4. 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)

48. Find x+2y

(i). x+y=10

(ii). 2x+4y=20

Ans: (b)

49. Is angle BAC is a right angle

(i) AB=2BC

(2) BC=1.5AC

Ans: (e)

50. Is x greater than y

(i) x=2k

(ii) k=2y

Ans: (e)