

## HCL Numerical Paper 2014

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**Q1. a =2, b=3, c=6 Find the value of**

$$c/(a+b)-(a-b)/c$$

**ANS:** 11/30

**Q2. What does the hexa number E78 in radix 7.**

- (a) 12455
- (b) 14153
- (c) 14256
- (d) 13541
- (e) 1311 12

**ANS:** (d)

**Q3. What does the hexa number E78 in radix 7.**

- (a) 12455
- (b) 14153
- (c) 14256
- (d) 13541
- (e) 131112

**ANS:** (d)

**Q4. Q is not equal to zero and  $k = (Q \times n - s)/2$ . What is the number?**

- (a)  $(2 \times k + s)/Q$
- (b)  $(2 \times s + k)/Q$
- (c)  $(2 \times k - s)/Q$
- (d)  $(2 \times k + s \times Q)/Q$
- (e)  $(k + s)/Q$

**Q5. From the following statements determining the order of ranking M has double the amount as D Y has 3 rupees more than half the amount of D**

**ANS:** Data insufficient

**Questions 6 - 10 are to be answered on the following data**

**A causes B or C, but not both**

**F occurs only if B occurs**

**D occurs if B or C occurs**

**E occurs only if C occurs**

**J occurs only if E or F occurs**

**D causes G.H or both**

**H occurs if E occurs**

**G occurs if F occurs**

**Q6. If A occurs which of the following must occurs**

**I. F and G**

**II. E and H**

**III. D**

(a) I only

(b) II only

(c) III only

(d) I, II, & III

(e) I & II (or) II & III but not both

**ANS:** (c)

**Q7. If B occurs which must occur**

(a) D

(b) D and G

(c) G and H

(d) F and G

(e) J

**ANS:** (a)

**Q8. If J occurs which must have occurred**

- (a) E
- (b) either B or C
- (c) both E & F
- (d) D
- (e) both B & C

**ANS: (b)**

**Q9. Which may occurs as a result of cause not mentioned**

- I. D.**
- II. A**
- III. F**

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

**ANS: (c)**

**Q10. E. occurs which one cannot occurs**

- (a) A
- (b) F
- (c) D
- (d) C
- (e) J

**ANS: (b)**

**Q11. A 5-litre jug contains 4 litres of a saltwater solution that is 15 percent salt. If 1.5 litres of the solution spills out of the jug, and the jug is then filled to capacity with water approximately what percent of the resulting solution in the jug is salt?**

- (A) 7.5%
- (B) 9.5%
- (C) 10.5%
- (D) 12%
- (E) 15%

**Q12. Working independently, Tina can do a certain job in 12 hours. Working independently, Ann can do the same job in 9 hours. If Tina Works independently at the job for 8 hours and then Ann works independently, how many hours will it take Ann to complete the remainder of the jobs?**

- (A)  $\frac{2}{3}$
- (B)  $\frac{3}{4}$
- (C) 1
- (D) 2
- (E) 3

**ANS: E**

**Q13. In a murder case there are four suspects P.Q.R.S. Each of them makes a statement. They are p.I had gone to the theatre with S at the time of the murder.g: I was playing cards with P at the time of the murder.r: Q didnt commit the murder.s: R is not the murderer. Assuming the only one of the above statement is false and that one of them is the murderer, who is the murderer?**

- a) P
- b) Q
- c) R
- d) Cant be concluded
- e) S

**ANS: E**

**Q14. Mohan earned twice as much as Deep. Yogesh earned rs3/- more than half as much as deep. If the amounts earned by Mohan, Deep, Yogesh are M.D.Y respectively, Which of the following is the correct ordering of these amounts?**

- a) M - D - Y
- b) M- Y - D
- c) D- M - Y
- d) It cant be determined from the information given
- e) Do Y &M

**Q15. Statistics indicate that men drivers are involved in more accidents than women drivers. Hence it may be concluded that**

- a) sufficiently information is not there to conclude anything
- b) Men are actually better drivers but drive more frequently
- c) Women Certainly drive more cautiously than Men
- d) Men chauvinists are wrong about womens abilities.
- e) Statistics sometimes present a wrong picture of things

**Q16.** Given that A,B,C,D,E each represent one of the digits between 1 and 9 and that the following multiplication holds: A B C DE X4 ----- what digit does E represent 7.

**Q17.** HCL prototyping machine can make 10 copies every 4 seconds. At this rate, How many copies can the machine make in 6 min.

- a) 900
- b) 600
- c) 360
- d) 240
- e) 150

**ANS: a**

**Q18.** If  $a-2.b-4, c=5$  then  $a-bic ca-b$

- a) 1
- b) 1130
- c) 0
- d)  $-11/30$
- e) -1

**ANS: b**

**Q19.**  $10^2(10^8+10^8)=----- 10^4$

- a)  $2010^4$
- b)  $2(10)^6$
- c)  $10^8$
- d)  $2(10)^8$
- e)  $10^{10}$

**ANS: b**

**Q20. Worker W produces n units in 5 hours. Workers V and W, workers independently but at the same time, produce n units in 2 hours. how long would it take V alone to produce n units?**

- a) 1 hr 26 min
- b) 1 hr 53 min
- c) 2 hr 30 min
- d) 3 hr 30 min
- e) 3 hr 20 min

**ANS: d**

Six knights-P,Q,R,S,T and U-assemble for a long journey in Two travelling parties. For security, each travelling party Consists of at least two knights. The two parties travel by separate routes, northern and southern. After one month, the routes of the northern and southern groups converge for a brief time and at that point the knights can, if they wish, ream range their travelling parties before continuing, again in two parties along separate northern and southern routes.

Throughout the entire trip, the composition of traveling parties must be in accord with the following conditions P and R are deadly enemies and, although they may meet briefly, can never travel together, p must travel in the same party with sq can not travel by the southern route U cant change

**Q21. If one of the two parties of knights consists of P and U and two other knights and travels by the southern route the other members of this party besides P and U must be**

- a) Q and S
- b) Q and T
- c) R and S
- d) R and T
- e) S and T

**ANS: e**

**Q22. If each of the two parties of knights consists of exactly three members, which of the following is not a possible travelling party and route?**

- a) P.S.U by the northern route
- b) PST by the northern route

- c) P.S.T by the southern route
- d) P.S.U by the southern route
- e) Q.R.T by the southern route

**ANS: b**

**Q23. If one of the two parties of knights consists of U and two other knights and travels by the northern route, the other members of this party besides U must be**

- a) P and S
- b) P and T
- c) Q and R
- d) Q and T
- e) R and T

**ANS: c**

**Q24. If each of the two parties of knights consists of exactly three members of different parties, and R travels by the northern route, then T must travel by the**

- a) southern route with P and S
- b) southern route with Q and R
- c) southern route with R and U
- d) northern route with Q and R
- e) northern route with R and U

**ANS: a**

**Q25. If, when the two parties of knights encounter one another after a month, exactly one knight changes from one travelling party to the other travelling party, that knight must be**

- a) P
- b) Q
- c) R
- d) S
- e) T

**ANS: e**

**Q26.** A gambler bets on the team of seven players ABCDEFG whose winning a-4 to 1 against b-4 to 1 against c-4 to 1 against d-4 to 1 against e-5 to 1 against f-6 to 1 against g. how should he bet on g to set 20% profit.

**Q27.** If a person buy radio worth Rs 2468 and pay 7% sales. how much price of radio should reduce to pay only Rs 2468.

**Q28.** What is Vasu salary if salary of Vasu is more than Rajan salary working in same company

- (i) Vasu salary is 100 more than Rajan salary.
- (ii) Rajan found 2000 allows which is 50 less than Vasu.
- (iii) basic salary of Rajan is 1000.

- (i) only i is required
- (ii) i & ii is required
- (iii) i & iii is required
- (iv) i & ii & iii s required
- (v) none of these

**Q29.** If in 100 miles race 8 person is running winner take 9.8 sec and fifth man takes 10.4 sec the time of 8 man is in AP if in 4\*100 meters really of onside is 1,4,5,8 position then win by.

- a) 3 sec
- b) 1 sec
- c) 7 sec
- d) 5 sec
- e) none

**Q30.** A sink has 12 lits of water some quantity of water is taken out if the remaining water is 6 litres less then the water taken out then quantity of water taken out is.

- a. 3
- b. 6
- c. 9
- d. 1

**Q31. Which is the 4 digit number whose second digit is thrice the first digit and 3rd digit is sum of 1st and 2nd and last digit is twice the second digit.**

1. 2674
2. 1349
3. 3343
4. 3678

**Q32. In a straight highway 2 cars starts from the same point in opposite directions each travels for 8 Kms and take left turn then travel for 6 Kms what is the distance between them now.**

1. 16
2. 20
3. 25
4. 10

**Q33. A problem based on house numbers.**

**Q34. Five students compare their test and quiz marks. some data given. 5 questions based on this.**

### **C Programming**

**Q35. Which of the following about the following two declaration is true**

*i) int \*F()*

*ii) int (\*F)()*