HCL placement paper

Q1. In a kilometer race, if A gives B a 40 m start,A wins by 19 s. But if A gives B a 30 s start, B wins by 40 m. Find the time taken by B to run 5,000 m?
a. 150 s b. 450 s c. 750 s d. 825 s

Q2. Pipe A takes 16 min to fill a tank. Pipes B and C, whose cross?sectional circumferences are in the ratio 2:3, fill another tank twice as big as the first. If A has a cross?sectional circumference that is one?third of C, how

long will it take for B and C to fill the second tank? (Assume the rate at which water flows through a unit cross?sectional area is same for all the three pipes.)
a. 66/13 b. 40/13 c. 16/13 d. 32/13

Q3. Three consecutive whole numbers are such that the square of the middle number is greater than the product of the other two by 1. Find the middle number.

Q4. The arithmetic mean of 2 numbers is 34and their geometric mean is 16. One of thenumbers will be

Q5. If x% of a is the same as y% of b, then z% of b is :

Q6. The letters of the word WOMAN are writte n in all possible orders and these words are written out as in a dictionary, then the rank of the word ' WOMAN' is

Q7. What least number must be subtracted from 9400 to get a number exactly divisible by 65?

Q8. If 2505 / 0.5 = 5010 then 25.05 / 0.5 = ?

Q9. Which pair of rational numbers lie between 1/5 and 2/5

Q10. What is the value of the following expression: 2 log10 5 + log10 4 ?

Q11. If x increases linearly, how will a ?x behave (a>1) ?

Q12. What is the probability of getting the sum 5 in two throws of the dice?

Logical ability questions
Q1. The question shows a pair of words in which the first is related to the second in some way. It is followed by a single word which bears a similar relation to one of the given alternatives. Find the correct alternative to

complete the analogy. Melt: Liquid:: Freeze: ?
a. Ice b. Condense c. Solid d. Crystal

Q2. Fill in the blank Guilt is to Past as Hope is to ......
a. Present b. Future c. Today d. Despair e. Hopeless

Q3. From the given choices select the odd man out:
a. Bird b. Kite c. Crow d. Pigeon e. Sparrow

Q4. Find the missing pattern BOQD: ERTG:: ANPC : ?
a. DQSF b. FSHU c. SHFU d. DSQF

Q5. Find the missing number 5: 24:: 8:?

a. 65 b. 63 c. 62 d. 64

Q6. From the given choices select the odd man out
a. DFHEG b. TWXUV c. OQSPR d. JLNKM

Q7. If HARD is coded as 1357 and SOFT is coded as 2468, what will 21448 stand for?
a. SHAFT b. SHORT c. SHOOT d. SHART