MODEL CET PAPER

(A) Verbal Section

(I) Put the sentences in the right order.

(1) the film I enjoyed yesterday.
(2) my mother to market went.
(3) we at home stay on Sundays.
(4) the news listened to I carefully.
(5) quietly the door he opened.

(II) Use the following words in a sentence.

(1) Concur
(2) Fragile
(3) Genuine
(4) Impatient
(5) Vacant

(III) Insert 'a', 'an', or 'the' if necessary.

(1) There was __ knock on __ door. I opened it and found __ small dark man in __ blue overcoat and __ woolen cap.
(2) He said he was __ employee of __ gas company and had come to read __ meter.
(3) I asked if he had __ torch.
(4) I remarked that if there was __ leak in __ gas pipe there might be __ explosion.
(5) He said, "As __ matter of __ fact, there was __ explosion in __ last house I visited".

(IV)   Put the verbs in brackets into the correct tenses.

(1) If you (find) some dirt in the cupboard don't mention it to anyone.
(2) If you pass your test we (have) a celebration.
(3) What (happen) if I press this?
(4) I should have voted for him if I (have) a vote then.
(5) If you go to Delhi where you (stay)?

(V) Fill the spaces in the following sentences by using 'for' or 'since.

(1) We've been walking _____ two hours.
(2) I've been working in this office _____ a month.
(3) They've been living in Pune _____ 1984.
(4) He has been in Bhopal _____ a year.
(5) I've known that _____ a long time.

(B) Analytical & Logical Reasoning

(I)   Analytical Reasoning:

A, B, C, D, E, and F are six actors. They are to perform mono-act plays in a one-day competition. Three of them will perform in the morning session before the lunch break whereas the other three will perform in the afternoon session. The performances have to be scheduled such that they comply with the following restrictions:
B should perform immediately before C; their performances cannot be separated by the lunch break.
D must be either the first or the last scientist to perform.

[1] In case C is to be the fifth actor to perform, then B must be
(A) 1st (B) 2nd   (C) 3rd (D) 4th (E) 6th

[2] B could be placed for any of the following places in the order of performances EXCEPT
(A) 1st (B) 2nd   (C) 3rd (D) 4th (E) 5th

[3] If F is to perform immediately after D, C could be scheduled for which of the following places in the order of performances?
(A) 1st (B) 2nd   (C) 3rd (D) 4th (E) 5th

[4] If F & E are 5th and 6th performers, which of the following must be true?
(A) A is 1st (B) A is 3rd (C) A is 4th (D) B is 1st (E) C is 4th

(II) Logical Reasoning:

[1] Testifying before the Senate committee investigating charges that cigarette manufacturers had manipulated nicotine levels in cigarettes in order to addict consumers to their products, tobacco executives argued that cigarette smoking is not addictive. The primary reason they
gave in support of this claim was that the Federal Drug Administration did not regulate cigarette smoking.
For the tobacco executives' argument to be logically correct, which of the following must be assumed?
(A) Substances that are not addictive are not regulated by the Federal Drug Administration.
(B) The tobacco executives lied when they claimed that cigarette smoking was not addictive.
(C) Some addictive substances are not regulated by the Federal Drug Administration.
(D) There is no scientific proof that cigarette smoking is addictive.
(E) Substances that are not regulated by the Federal Drug Administration are not addictive.

[2] There is clear evidence that the mandated use of safety seats by children under age four has resulted in fewer child fatalities over the past five years. Compared to the five-

year period prior to the passage of laws requiring the use of safety seats, fatalities of children under age four have decreased by 30 percent.

Which one of the following, if true, most substantially strengthens the argument above?

(A) The number of serious automobile accidents involving children under age four has remained steady over the past five years.

(B)   Automobile accidents involving children have decreased sharply over the past five years.

(C) The use of air bags in automobiles has increased by 30 percent over the past five years.

(D)   Most fatal automobile accidents involving children under age four occur in the driveway of their home.

(E) The number of teenage drivers has increased by 30 percent over the past five years.

[3] All German philosophers, except for Marx, are idealists.

From which of the following can the statement above be most properly inferred?

(A) Except for Marx, if someone is an idealist philosopher, then he or she is German.

(B) Marx is the only non-German philosopher who is an idealist.

(C) If a German is an idealist, then he or she is a philosopher, as long as he or she is not Marx.

(D) Marx is not an idealist German philosopher.

(E) Aside from the philosopher Marx, if someone is a German, then he or she is an idealist.

(C) Quantitative Aptitude

(1)   A rectangle is 14 cm long and 10 cm wide. If the length is reduced by x cm and its width is increased also by x cm
so as to make it a square then its area changes by:
(A) 4   (B) 144   (C) 12 (D) 2   (E) None of these

(2) A motorcycle stunts man belonging to a fair, rides over the vertical walls of a circular well at an average speed
of 54 kmph for 5 minutes. If the radius of the well is 5 meters then the distance traveled is:
(A) 2.5 km   (B) 3.5 km   (C) 4.5 km   (D) 5.5 km   (E) None of these

(3) $\{(1/4)3 + (3/4)3 + 3(1/4)(3/4)[(1/4) + (3/4)]\}=$
(A) 1/64   (B) 27/64   (C) 49/64   (D) 0   (E) 1

(4) 5 years ago, Beena's age was 3 times that of Anu. 10 years ago, Beena's age was one half that of Chandra.
If C is Chandra's current age, what is Anu's current age?
(A) (C/6) + 5   (B) 2C (C) (C-10)/3   (D) 3C 5   (E) (5C/3) 10

(5) An empty swimming pool can be fully filled by an inlet pipe in 3 hours, and can be completely drained by a drainpipe in 6 hours.

If both pipes are fully open at the same time, in how many hours will the empty pool be filled to capacity?
(A) 4   (B) 4 ½   (C) 5   (D) 5 ½   (E) 6

(D) Problem Solving Ability

(1) If you take a marker & start from a corner on a cube, what is the maximum number of edges you can trace across if you never trace
across the same edge twice, never remove the marker from the cube, & never trace anywhere on the cube except for the corners & edges?

(2) A certain street has 1000 buildings. A sign-maker is contracted to number the houses from 1 to 1000. How many zeroes will he need?