Quantitative Ability Section.

Direction: Select the correct answer.

1. If A and B together can complete a piece of work in 15 days and B alone in 20 days, in how many days can A alone complete the work?
2. If the average of 5 and K is equal to the average of 2, 6 and K, what is the value of K?
   a. 1  b. 3  c. 4  d. 8

3. What is the Next number in the geometric progression 4, 12, 36?
   a. 200  b. 172  c. 108  d. 218

READING COMPREHENSION QUESTIONS

Passage 1

Totem poles are first planned in meetings between the artists / carver, the pole’s commissioning body, and elders (if necessary). A place to carve the pole must be arranged and a lumber company consulted to provide a “clear” tree. Clear trees have few knots or imperfections. In some cases, the carver will travel into the woods to inspect the tree before it is cut down and occasionally, the carver personally fells the tree. Sometimes a small model of the pole is carved to see how each figure will be integrated into the total design. The tree is delivered to the carving shed, where it is debarked and tested for imperfections. Some trees contain hollow centers that lie undetected. These must be uncovered and repaired, or the log is rejected. Once the outer bark is removed, the wood is given a cursory smoothing. Most carvers begin from the bottom of the pole, moving gradually to the top. Bottom figures are carefully detailed because observers see these figures close up. Morale is a matter for the master carver, who is expected to inspire the team. A team of apprentice carvers now arrives to help with the carving, and they begin to work under the guidance and inspiration of the master carver.

Q1. According to the passage, why might a tree be rejected?
   a. It has a heady aroma  
   b. Its spirit cannot be released  
   c. Its outer bark has been removed  
   d. Its imperfections cannot be repaired.

Q2. Why does the master carver concentrate on the bottom portion of the pole?
   a. The bottom figures are more closely viewed.  
   b. The pole is too long to be completed by only one person.  
   c. The master carver is focused on inspiring the apprentices.
d. Only the apprentices are expected to climb the top of the pole.

Q3. Which statement is true about the apprentices?

a. They work in teams.  
b. They revise the original plan.  
c. They say prayers over the log.  
d. They draft preliminary designs.

Passage 2

Opera refers to a dramatic art form, originating in Europe, in which the emotional content is conveyed to the audience as much through music, both vocal and instrumental, as it is through the lyrics. The Italian word opera means "work", both in the sense of the labor done and the result produced. The Italian word derives from the Latin opera, a singular noun meaning "work". According to the Oxford English Dictionary, the Italian word was first used in the sense "composition in which poetry, dance, and music are combined" in 1639; the first recorded English usage in this sense dates to 1648. By contrast, in musical theater an actor's dramatic performance is primary, and the music plays a lesser role. The drama in opera is presented using the primary elements of theater such as scenery, costumes, and acting. In traditional opera, singers do two types of singing: recitative, a speech-inflected style and arias, a more melodic style. The performance is typically given in an opera house, accompanied by an orchestra or smaller musical ensemble, which since the early 19th century has been led by a conductor. However, the words of the opera, or libretto, are sung rather than spoken. Opera is part of the Western classical music tradition. It started in Italy at the end of the 16th century (with Jacopo Peri's lost Dafne, produced in Florence in 1598) and soon spread through the rest of Europe. In the 18th century, Italian opera continued to dominate most of Europe (except France), attracting foreign composers such as Handel.

Q1. It is pointed in the reading that Opera is:

a. A form of dance performance  
b. Is a drama sung with the accompaniment of an orchestra  
c. Is not a high-budget production  
d. Is only performed in Europe

Q2. We can understand from the reading that ----.

a. People are captivated more by opera than musical theatre  
b. Costumes scenery and acting are primary.  
c. Orchestras in operas can vary considerably in size  
d. Musical theater relies above all on music

Q3. It is stated in the reading opera started in ----. ?

a. Western World in the 16th century  
b. At the end of 16th century In Italy  
c. In Sydney opera house  
d. France

Analytical Reasoning

Directions: Select the best response for the following statement.
Q1.

Find the number of triangles in the given figure.

```
```

| a. 8 | b. 10 | c. 12 | d. 14 |

Q2. Estelle states: “When I went fishing the other day, every fish that I caught was a salmon, and every salmon I saw I caught.”

Of the following statements listed below, which one can be concluded from the observations of Estelle?

a. Salmon was the only fish that Estelle saw while she was fishing.
b. While Estelle was fishing, she caught no fish other than salmon.
c. In the area that Estelle fished, there were no other fish.
d. All of the fish that Estelle saw she caught.
e. Estelle did not see any other fish while she was fishing.

Q3. Amna is elder than Sunan Arfaa is elder than Amna but younger than Kalsum who is elder than Sunan. Sunan is younger than Arfa and Saman is the eldest. Who is in the middle?

a. Amna  c. Sunan
b. Arfa   d. Kalsum

Q4. In each of the following questions, various terms of an alphabet series are given with one or more terms missing as shown by (?). Choose the missing terms out of the given alternatives.

AZ, GT, MN, ?, YB

a. KF  b. RX  c. SH
SAMPLE TEST KEY

Quantitative Analysis Questions

1. D
2. A
3. C

Passage 1:

1. D
2. A
3. A

Passage 2:

1. B
2. B
3. B

Analytical Reasoning:

1. D
2. B
3. B
4. C
DISCLAIMERS:

1. Engineering: There will be 4 sections including
   a. Physics
   b. Chemistry
   c. Math
   d. English
2. Computer Sciences and management test will follow the pattern mentioned above
3. Arts:
   a. The arts test will contain an analysis of your drawing skills.
   b. It will also include short comprehensions and English Grammar test
4. Architecture:
   This will include quantitative analysis and questions of English Grammar.
5. B.A LLB:
   Law will follow the above uploaded format with a short section on General Knowledge
6. Health Sciences:
   Test will follow an MCAT format with 4 sections containing
   a. Physics
   b. Chemistry
   c. Biology
   d. English Grammar and comprehension
7. All tests except health sciences and engineering include essay writing on a given topic with a word count of at least 150 words.