

SAMPLE QUESTIONS
FOR
FLAME ENTRANCE APTITUDE TEST

Section 1

Reasoning

The reasoning section tests the student on analytical and logical reasoning skills. Analytical reasoning questions test the ability of a student to analyze relationships and to make inferences about those relationships. The first part of an analytical reasoning question introduces a set of variables, such as people, places, things, and these variables are involved in an easy to understand activity like-sitting, scheduling etc. The second part of the question introduces rules, which govern the relationship between the variables. The final part will involve answering 1 to 5 questions, to test the understanding of the student of the rules and the relationship between variables, making inferences from them, and how essential features of the situation change as and when new conditions are introduced or when some rules are revised. A sample question is given below to illustrate the type of questions that one can expect in this section.

Logical reasoning problems involve a small argument and questions may be asked on testing the validity of the argument or to arrive at a conclusion given a set of hypothesis (facts). There may also be questions on determining the relevance of a fact in strengthening or weakening the argument.

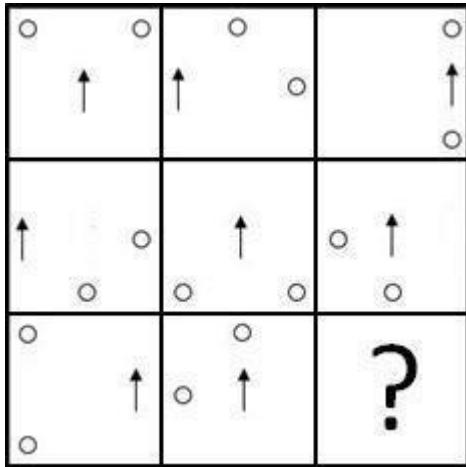
1. Undertaking broader advertising and redesigning the workflow for greater efficiency are two strategies available for Buy Cheap supermarket for increasing its profits of all its retail stores. Broader advertising will increase the profits more than the workflow redesign. Therefore, by spending more on advertising, Buy Cheap will be doing the most that can be done to increase its profits.

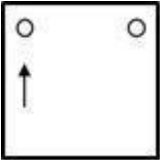
Which of the following is an assumption on which the conclusion above is based?

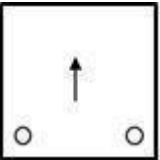
- a) Redesigning the workflow will not be more expensive than broader advertising.
- b) Aside from sales in its retail stores, Buy Cheap supermarket does not undertake any other activity that contributes to profits.
- c) Buy Cheap supermarket can use different types of advertisements, some of which are more effective than others.
- d) Profits of Buy Cheap supermarket will not increase more by using a combination of both the strategies

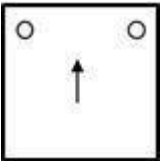
Answer: D

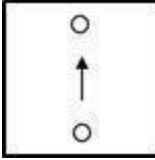
2. Find the missing figure, which follows the same pattern/rule and mark it as the answer.

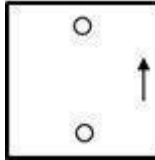


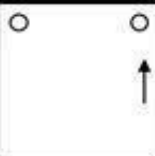
- a) 

b) 

c) 

d) 

e) 

f) 

Answer: C

3. Find the missing figure, which follows the same pattern/rule and mark it as the answer.

1	2	3	4	5	6	7	8	9
4	5	6	1	2	3	1	2	3
7	8	9	7	8	9	4	5	6
7	8	9	8	7	9	9	7	8
4	5	6	5	4	6	6	4	5
1	2	3	2	1	3	3	1	2
9	8	7	6	5	4	?		
6	5	4	9	8	7			
3	2	1	3	2	1			

a)

3	2	1
9	8	7
6	5	4

d)

2	9	1
8	3	7
5	6	4

b)

9	8	7
3	2	1
6	5	4

e)

2	3	1
8	9	7
5	6	4

c)

3	2	1
6	5	4
9	8	7

f)

3	1	2
9	7	8
6	4	5

Answer: A

4. Industrialist: The increasing demand for energy has made us depend more and more on fossil fuels, which cannot be replenished. This adds to the release of greenhouse gases that adversely affect the environment, resulting in global warming. While it is impractical to seek to reduce energy consumption, we can develop technologies that depend on renewable sources and those that release minimum greenhouse gases.

Which of the following CAN be concluded from the information given above?

- a) Preserving the remaining non-renewable sources is likely to protect the environment from further damage.
- b) Utilization of renewable resources for energy production is more cost-effective than using conventional sources of energy.
- c) Most of the energy utilization can be shifted to renewable energy sources without a major shift in technologies.
- d) Environmental degradation could be largely contained without significantly decreasing energy consumption.

Answer: D

5. Three friends of different age and height stand in a queue for a photograph. The photographer asks the youngest to stand to the right of Anu. The tallest stands in the extreme left. Bhanu does not stand in the center and he is not the youngest. Charu is not in the center too. All are facing the photographer.
No person receives the same rank when put in the increasing order of both age and height. Now, who is the shortest?
- a) Anu
 - b) Bhanu
 - c) Charu
 - d) Cannot be determined

Answer: C

6. German silver is a type of alloy in which a silver compound is found in an ordinary silver ore. German silver is a clever innovation of greedy industry owners in which they fleece the innocent buyer.

Which of the following statements below, if true, would explain the reason why industry owners could fleece the innocent buyer without being caught?

- a) The government control bureau of standards does not provide strict norms for the purity of the metal.
- b) The areas that experience such sale of German silver have the maximum industries and silver ore mines.
- c) Finding out the silver content in German silver is a very cumbersome process and costlier than extracting silver from an ordinary silver ore
- d) The greedy industry owners maintain a very good PR activity so that the government control bureau of standards does not suspect them.

Answer: A

Verbal Ability

A major component of the admission test (FEAT-FLAME Entrance Aptitude Test) of FLAME University's undergraduate program is verbal ability in English. Questions will seek to test the candidate's familiarity with English vocabulary, usage, and grammar on the one hand, and ability to read and write texts on the other. There will be a variety of questions on all the components. There will, for example, be questions to test the candidate's factual, inferential, and critical comprehension of passages. Similarly, their ability to write coherently and in a consistent style will be tested. Multiple choice format with only one right answer will be used throughout the test. The sample questions given below illustrate the type of questions that can be expected to appear in the test.

1. Arrange the following sentences in a logical order to construct a coherent paragraph

A. In the course of the day, I had seen one person whom I knew, Mr. Clarke, to whom Henry B introduced me, when we went to see the great ship launched on the Dee, which, I believe, was in Regent Street.
B. Omnibuses are the most important aid to wanderers around London.
C. In that street too, I saw a company of dragoons, beautifully mounted, and defensively armed, in brass helmets and steel cuirasses, polished to the utmost excess of splendor.
D. I reached home, well wearied, around 6 o'clock.

- a) B D A C
b) B A C D
c) D A C B
d) D B A C

Answer: B

2. Arrange the following sentences in a logical order to construct a coherent paragraph.

A. The best known example of this latter process is solid carbon dioxide, which has the appearance of cloudy ice.
B. It is common for a liquid to turn into vapor when heated. It is less common for a solid substance to turn directly into vapor without going through the liquid stage.
C. Indeed, nuclear reactions involving certain substances are highly complex and unpredictable.
D. When heated, it doesn't turn into liquid but directly to its gas state.

- a) A D C B
b) C D A B
c) B A D C
d) B D A C

Answer: C

3. Arrange the following sentences in a logical order to construct a coherent paragraph.

- A. Within the garden, Termitomyces rapidly grows on the plant substrate until it is utilized, after which older termites consume the fungus garden.
- B. Younger workers eat the plant material together with Termitomyces fungal spores, and this plant-spore mix is defecated as a new layer of fungus garden.
- C. By then, nearly all organic matter has been broken down.
- D. Termites manage their fungus farm in a highly structured way.
- E. Older termite workers collect plant material and bring it to the nest.

- a) A B C D E
- b) B A E D C
- c) D E A B C
- d) D E B A C

Answer: D

4. Read the following passage and answer the given questions.

At the age of 18, Mother Teresa was convinced that her life's vocation lay in her becoming a missionary in far-off India; Skopje, where she was born on August 26, 1910, was so far removed from Bengal that, barring a few Yugoslav Jesuits who fired her young imagination, no one in the small Catholic community would even have known where India was situated. Yet the early seeds of her faith and determination impelled her to leave her closely knit family. She found that the route to India lay in her joining the Loreto Order of teaching nuns, who were headquartered in faraway Calcutta. Here she taught for close to 20 years before her true calling propelled her to serve the poor in the streets and slums. The Vatican, fantastically, gave her permission to step outside the Cloister, not as a lay worker but with her religious vows intact, to set up her own order, the Missionaries of Charity. In 1948, Calcutta's pavements were teeming with millions uprooted by the Partition, who had joined the hapless sufferers of the Great Bengal famine. Into this sea of tragedy, homelessness, disease and despair stepped a 38-year-old nun, dressed not in a recognizable nun's habit, but a sari similar to what the municipal sweeper wore. She had no companion, no helper and no money to speak of. What she did have was a secret calling that her God wanted her to leave the security of the Loreto Convent and minister to Him in his distressing disguise of the poorest of the poor, the abandoned infant, the leprosy sufferer shunned by society and the dying destitute.

Choose the correct synonym for the word impelled.

- a) Compelled
- b) Dispelled
- c) Quelled
- d) Knelled

Answer: A

5. Read the following passage and answer the given questions.

At the age of 18, Mother Teresa was convinced that her life's vocation lay in her becoming a missionary in far-off India; Skopje, where she was born on August 26, 1910, was so far removed from Bengal that, barring a few Yugoslav Jesuits who fired her young imagination, no one in the small Catholic community would even have known where India was situated. Yet the early seeds of her faith and determination impelled her to leave her closely knit family. She found that the route to India lay in her joining the Loreto Order of teaching nuns, who were headquartered in faraway Calcutta. Here she taught for close to 20 years before her true calling propelled her to serve the poor in the streets and slums. The Vatican, fantastically, gave her permission to step outside the Cloister, not as a lay worker but with her religious vows intact, to set up her own order, the Missionaries of Charity. In 1948, Calcutta's pavements were teeming with millions uprooted by the Partition, who had joined the hapless sufferers of the Great Bengal famine. Into this sea of tragedy, homelessness, disease and despair stepped a 38-year-old nun, dressed not in a recognizable nun's habit, but a sari similar to what the municipal sweeper wore. She had no companion, no helper and no money to speak of. What she did have was a secret calling that her God wanted her to leave the security of the Loreto Convent and minister to Him in his distressing disguise of the poorest of the poor, the abandoned infant, the leprosy sufferer shunned by society and the dying destitute.

What is the meaning of the last line of the passage?

- a) Mother Teresa believed that by serving the destitute, she was serving God.
- b) Mother Teresa saw an opportunity to develop India by helping the poor.
- c) Mother Teresa was deeply involved with the poor and wanted to give them a decent lifestyle
- d) Mother Teresa wanted to bring in equality so that the leprosy sufferers are accepted by the society.

Answer: A

Quantitative Ability

The other major components in the entrance test for the undergraduate program are questions on Quantitative and Reasoning ability. All the questions will be of multiple choice type with one correct answer. The quantitative questions will cover a wide range of mathematical concepts that one encounters at the high-school level. This includes Ratio and proportion, Percentages, Rate of interest, Basic algebra and elementary problems in geometry (straight lines, triangles, quadrilaterals). The emphasis will be on word problems. The questions may be of the following types:

1. The ratio of children going for a picnic to the ratio of children not going is 8:3. If the total number of children were 55 out of which 3 who were not going earlier are now ready to go, what is the new ratio?
 - a) 8:1
 - b) 9:2
 - c) 51:4
 - d) 43:12

Answer: D

2. On a certain day, it rains for 20 minutes in the morning, 2 hours in the evening and 3 hours 40 minutes in the night. Find the ratio of time for which it rained to the time that it did not.
 - a) 1:3
 - b) 3:1
 - c) 1:6
 - d) 1:4

Answer: A

3. A train travels 8 km in the first quarter of an hour, 6 km in the second quarter, and 31 km in the third quarter. What is the average speed of the train per hour over the entire journey?
 - a) 60 km/h
 - b) 72 km/h
 - c) 77.33 km/h
 - d) 78.5 km/h

Answer: A

General Knowledge

The final section tests the student's knowledge of current affairs, politics, history, economy, sports etc. They are popularly called General Knowledge questions and shall be at a level that an informed high school graduate should be easily able to answer. The type of questions that one can expect in this section are given below.

1. Which famous personality's image is printed on a \$100 bill in USA?

- a) Alexander Hamilton
- b) Benjamin Franklin
- c) George Washington
- d) Abraham Lincoln

Answer: B

2. Which cricketer first Indian (male) to take a hat trick in T20 Internationals?

- a) Bhuvaneshwar Kumar
- b) Deepak Chahar
- c) Jaspreet Bumrah
- d) Khaleel Ahmed

Answer: B

3. Name the state which got the first rank in the Swachh Survekshan Grameen award 2019?

- a) Haryana
- b) Tamil Nadu
- c) Uttar Pradesh
- d) Gujarat

Answer: B

4. What does ISS stand for?

- a) International Space Station
- b) International Social Services
- c) Injury Severity Score
- d) Internal Security Service

Answer: A

5. Who among the following Indian Shooters recently won gold medal in ISSF World Cup Finals in Putian, China?
- a) Ronak Pandit
 - b) Divyansh Panwar
 - c) Vijay Kumar
 - d) Jitu Rai

Answer: B

The Admissions Committee reserves the right to change, alter and modify the pattern and content of the Test at its sole discretion



FLAME Design Aptitude Test

FDAT

Entrance examination sample questions
Bachelor of Design

Section 2: Imaginative Sketching

Section 1 (15 Marks) - Draw any one from the two options given below.

1. The design of chairs has evolved over the years. Imagine what a future chair will look like in 2080 and draw it. Provide a description of the features of this product.
2. Imagine yourself in a shopping mall. Draw what you see. Provide a brief description of the scene.
3. Imagine that you are a security guard; sketch what your surroundings look like at 2 a.m. Depict them in three frames and give 2-3 lines description for each of them.
4. Using doodle art, draw a sports event/fest at your school. Name the event and provide a brief description of the scene.

Note:

- Make a pencil sketch only
- Do not use colors

Evaluation Criteria:

- Observation
 - Creativity
 - Composition
 - Imagination
-

Section 3: Object Sketching

Section 2 (15 Marks) - Draw any one from the two options given below.

1. A mobile phone consists of different parts that are assembled together. Draw different parts of a mobile phone. Provide a brief description of your drawing.
2. Draw an object that flies in the air. Provide a brief description of your drawing.
3. Every food delivery app has its own identity. Draw a logo of any food delivery app.
4. Draw a 3/4th view of your favorite car.

Note:

- Make a pencil sketch only
- Do not use colors

Evaluation Criteria:

- Proportion
- Composition
- Quality of sketch
- Attention to detail

Section 4: Situation Analysis

Section 4 (20 Marks) - Identify problems for any ONE from the two options given below.

Question - Take a look at the visuals provided to you. Please list FOUR unique design problems or opportunities in this situation and write them in the space provided in the answer booklet. You may be able to identify problems or opportunities based either on the photo or on your personal experiences in these situations. There will be five marks awarded for each problem you identify. The main focus should be on depicting the problems and the opportunities that exist. Please DO NOT provide solutions.

Evaluation Criteria:

- The magnitude of the problems identified
- Observations of diverse nature
- Analytical skills
- Communication Skills

Situation 1: Water crisis in India



Situation 2: Protest in parliament, India



Situation 3: Noise pollution in India

