# Faculty of Economics

# Department of Master in Business Administration

## (ENTRY TEST SAMPLE QUESTION PAPER)

**2023 - 2024**

# Entry Test

## Section 1 – Critical Reasoning

### 64 Marks

**Each question carries 2 Marks**

**Instructions:** Usually, these questions use the letters' alphabetical order as a base. To make matters more complicated, sometimes subscript numbers will be thrown into the letter sequence. In these series, you will be looking at both the letter pattern and the number pattern. Some of these questions ask you to fill the blank in the middle of the series; others ask you to add to the end of the series.

**Q.1** QPO NML KJI _____ EDC

     **a.** HGF      **b.** CAB      **c.** JKL      **d.** GHI

**Q.2.** JAK KBL LCM MDN _____

     **a.** OEP      **b.** NEO      **c.** MEN      **d.** PFQ

**Q.3** $B_2CD$ _____ $BCD_4$ $B_5CD$ $BC_6D$

     **a.** $B_2C_2D$      **b.** $BC_3D$      **c.** $B_2C_3D$      **d.** $BCD_7$

**Q.4** **ELFA** GLHA ILJA _____ MLNA

     **a.** OLPA      **b.** KLMA      **c.** LLMA      **d.** KLLA

**Q.5** $P_5QR$ $P_4QS$ $P_3QT$ _____ PQV

     **a.** PQW      **b.** $PQV_2$      **c.** $P_2QU$      **d.** $PQ_3U$

**Instructions:** The two set contain verbal classification questions. For these questions, the important thing (as the name "verbal classification" indicates) is to *classify* the words in the four answer choices. Three of the words will be in the same classification; the remaining one will not be. Your answer will be the one word that does NOT belong in the same classification as the others.

**Q.6** Which word does NOT belong with the others?

     **a.** biology      **b.** chemistry      **c.** theology      **d.** zoology

**Q.7 Which** word does NOT belong with the others?

     **a.** triangle      **b.** circle      **c.** oval      **d.** sphere

**Q.8 Which** word does NOT belong with the others?

     **a.** excites      **b.** flourish      **c.** prosper      **d.** thrive

**Q.9** Which word does NOT belong with the others?

     **a.** evaluates      **b.** assess      **c.** appraise      **d.** instruct

**Q.10 Which** word does NOT belong with the others?

     **a.** eel      **b.** lobster      **c.** crab      **d.** shrimp

**Instructions:** For each item in this set, you will be given a short, informational paragraph and four answer choices. Look for the statement that *must be* true according to the given information. The best way to approach this problem is to read the answer choices in turn, going back each time to look for that exact information in the short passage.

**Q. 11** Sara lives in a large city on the East Coast. Her younger cousin Marlee lives in the Midwest in a small town with fewer than 1,000 residents. Marlee has visited Sara several times during the past five years. In the same period of time, Sara has visited Marlee only once.

     **a.** Marlee likes Sara better than Sara likes Marlee      **b.** Sara thinks small towns are boring

     **c.** Sara is older than Marlee      **d.** Marlee wants to move to the East Coast

**Q. 12** Ten new television shows appeared during the month of September. Five of the shows were sitcoms, three were hour-long dramas, and two were news-magazine shows. By January, only seven of these new shows were still on the air. Five of the shows that remained were sitcoms.

**a.** Only one of the news-magazine shows remained on the air

**b.** Only one of the hour-long dramas remained on the air

**c.** At least one of the shows that was cancelled was an hour-long drama

**d.** Television viewer prefer sitcoms over hour-long dramas

**Q. 13** Georgia is older than her cousin Marsha. Marsha's brother Bart is older than Georgia. When Marsha and Bart are visiting with Georgia, all three likes to play a game of Monopoly. Marsha wins more often than Georgia does.

**a.** When he plays Monopoly with Marsha and Georgia, Bart often loses.
**b.** Of the three, Georgia is the oldest.
**c.** Georgia hates to lose at Monopoly.
**d.** Of the three, Marsha is the youngest.

**Q. 14** Vincent has a paper route. Each morning, he delivers 37 newspapers to customers in his neighborhood. It takes Vincent 50 minutes to deliver all the papers. If Vincent is sick or has other plans, his friend Thomas, who lives on the same street, will sometimes deliver the papers for him.

**a.** Vincent and Thomas live in the same neighborhood.
**b.** It takes Thomas more than 50 minutes to deliver the papers.
**c.** It is dark outside when Vincent begins his deliveries.
**d.** Thomas would like to have his own paper route

**Q. 15** Seahorse populations have declined everywhere that seahorses are fished. During the past five years, seahorse populations have decreased by 50%. Last year, biologists met to discuss what might be done to reverse this trend.

**a.** Seahorses are likely to become extinct within five years.
**b.** One way to increase seahorse populations is to ban the fishing of seahorses.
**c.** Biologists from all over the world are working to save the seahorses.
**d.** Seahorse fishermen have spoken out against the biologists.

**Q. 16** When they heard news of the hurricane, Maya and Julian decided to change their vacation plans. Instead of traveling to the island beach resort, they booked a room at a fancy new spa in the mountains. Their plans were a bit more expensive, but they'd heard wonderful things about the spa and they were relieved to find availability on such short notice.

**a.** Maya and Julian take beach vacations every year.
**b.** The spa is overpriced.
**c.** It is usually necessary to book at least six months in advance at the spa.
**d.** Maya and Julian decided to change their vacation plans because of the hurricane.

**Instructions:** Here is another set of questions that ask you to translate from an imaginary language into English. Remember, the best way to approach these questions is to translate each word element. When you discover what a word element means in English, write it down. Then, look for the word elements that appear both on the list and in the answer choices.

**Q.17** Here are some words translated from an artificial language.
*malgauper* means peach cobbler
*malgaport* means peach juice
*moggagrop* means apple jelly
Which word could mean "apple juice"?

    **a.** moggaport        **b.** malgaauper        **c.** gropport        **d.** moggagrop

**Q.18** Here are some words translated from an artificial language.
*relftaga* means carefree
*otaga* means careful
*fertaga* means careless
Which word could mean "aftercare"?

**a.** zentaga      **b.** tagafer      **c.** tagazen      **d.** relffer

**Q.19** Here are some words translated from an artificial language.

*aptaose* means first base
*eptaose* means second base
*lartabuk* means ballpark
Which word could mean "baseball"?

**a.** buklarta      **b.** oseepta      **c.** bukose      **d.** oselarta

**Q.20** Here are some words translated from an artificial language.

*gemolinea* means fair warning
*gerimitu* means report card
*gilageri* means weather report
Which word could mean "fair weather?"

**a.** gemogila      **b.** gerigeme      **c.** gemomitu      **d.** gerimita

**Instructions:** The questions in this set ask you to match definitions to particular situations. For each question, you will be given a definition and four possible answer choices. Read each definition and all four choices carefully, and find the answer that provides the best example of the given definition. Answer each question *solely* on the basis of the definition given.

**Q.21 Violating an Apartment Lease** occurs when a tenant does something prohibited by the legally binding document that he or she has signed with a landlord. Which situation below is the best example of violating an Apartment Lease?

a. Tim has decided to move to another city, so he calls his landlord to tell him that he is not interested in renewing his lease when it expires next month.
b. Valerie recently lost her job and, for the last three months, has neglected to pay her landlord the monthly rent they agreed upon in writing when she moved into her apartment eight months ago.
c. Mark writes a letter to his landlord that lists numerous complaints about the apartment he has agreed to rent for two years.
d. Leslie thinks that her landlord is neglecting the building in which she rents an apartment. She calls her attorney to ask for advice.

**Q.22** It is appropriate to compensate someone if you have damaged his or her property in some way. This is called **Restitution**. Which situation below is the best example of Restitution?

a. Jake borrows Leslie's camera and the lens shatters when it falls on the ground because he fails to zipper the case. When Jake returns the camera, he tells Leslie that he will pay for the repair.
b. Rebecca borrows her neighbor's car, and when she returns it, the gas tank is practically empty. She apologizes profusely and tells her neighbor she will be more considerate the next time.
c. Aaron asks Tom to check in on his apartment while he is out of town. When Tom arrives, he discovers that a pipe has burst and there is a considerable amount of water damage. He calls a plumber to repair the pipe.
d. Lisa suspects that the pothole in her company's parking lot caused her flat tire. She tells her boss that she thinks the company should pay for the repair.

**Q.23** People **speculate** when they consider a situation and assume something to be true based on inconclusive evidence. Which situation below is the best example of Speculation?

a. Francine decides that it would be appropriate to wear jeans to her new office on Friday after reading about "Casual Fridays" in her employee handbook.
b. Mary spends thirty minutes sitting in traffic and wishes that she took the train instead of driving.
c. After consulting several guidebooks and her travel agent, Jennifer feels confident that the hotel she has chosen is first-rate.
d. When Emily opens the door in tears, Theo guesses that she's had a death in her family.

**Q.24** A **Guarantee** is a promise or assurance that attests to the quality of a product that is either (1) given in writing by the manufacturer or (2) given verbally by the person selling the product. Which situation below is the best example of a Guarantee?

    **a.** Melissa purchases a DVD player with the highest consumer ratings in its category.

    **b.** The salesperson advises Curt to be sure that he buys an air conditioner with a guarantee.

    **c.** The local auto body shop specializes in refurbishing and selling used cars.

    **d.** Lori buys a used digital camera from her coworker who says that she will refund Lori's money if the camera's performance is not of the highest quality.

**Q.25 Applying for Seasonal Employment** occurs when a person requests to be considered for a job that is dependent on a particular season or time of year. Which situation below is the best example of Applying for Seasonal Employment?

    **a.** The ski instructors at Top of the Peak Ski School work from December through March.

    **b.** Matthew prefers jobs that allow him to work outdoors.

    **c.** Lucinda makes an appointment with the beach resort restaurant manager to interview for the summer waitressing position that was advertised in the newspaper.

    **d.** Doug's ice cream shop stays open until 11 p.m. during the summer months

**Instructions:** Every one of the following questions consists of a related pair of words, followed by five pairs of words labeled **a** through d. Choose the pair that *best* represents a similar relationship to the one expressed in the original pair of words. Remember, the best way to approach an analogy question is to make up a sentence that describes the relationship between the first two words. Then, find the pair that has a similar relationship.

**Q.26** PETAL: FLOWER

    **a.** Salt: pepper      **b.** Tire: bicycle      **c.** Base: ball      **d.** Sandals: shoes

**Q. 27 bristle**: brush

    **A.** Arm: leg      **b.** Stage: curtain      **c.** Recline: chair      **d.** Key: piano

**Q. 28 fish**: school

    **A.** Wolf: pack      **b.** Elephant: jungle      **c.** Beagle: clan      **d.** Herd: peacock

**Q. 29 odometer**: distance

    **A.** Scale: weight      **b.** Length: width      **c.** Inch: foot      **d.** Mileage: speed

**Q.30** Siamese: cat

    **A.** Type: breed      **b.** Dog: puppy      **c.** Mark: spot      **d.** Romaine: lettuce

**Q. 31 pedal**: bicycle

    **A.** Inch: yardstick      **b.** Walk: skip      **c.** Tire: automobile      **d.** Oar: canoe

**Q. 32 pulsate**: throb

    **A.** Walk: run      **b.** Tired: sleep      **c.** Examine: scrutinize      **d.** Ballet: dancer

**Each Question Carries 2 Marks**

**Read the below passages carefully and solve the questions end of each passage.**

**Passage 1**

(1) Medical waste has been a growing concern because of recent incidents of public exposure to discarded blood vials, needles (sharps), empty prescription bottles, and syringes. Medical waste can typically include general refuse, human blood and blood products, cultures and stocks of infectious agents, laboratory animal carcasses, contaminated bedding material, and pathological wastes.

(2) Wastes are generally collected by gravity chutes, carts, or pneumatic tubes, each of which has its own advantages and disadvantages. Chutes are limited to vertical transport, and there is some risk of exhausting contaminants into hallways if a door is left open during use. Another disadvantage of gravity chute is that the waste container may get jammed while dropping, or it may be broken upon hitting the bottom. Carts are primarily for horizontal transport of bagged or containerized wastes. The main risk here is that bags may be broken or torn during transport, potentially exposing the worker to the wastes. Using automated carts can reduce the potential for exposure. Pneumatic tubes offer the best performance for waste transport in a large facility. Advantages include high-speed movement, movement in any direction, and minimal intermediate storage of untreated wastes. However, some objects cannot be conveyed pneumatically.

(3) Off-site disposal of regulated medical wastes remains a viable option for smaller hospitals (those with less than 150 beds). Some preliminary on-site processing, such as compaction or hydro pulping, may be necessary prior to sending the waste off site. Compaction reduces the total volume of solid wastes, often reducing transportation and disposal costs, but it does not change the hazardous characteristics of the waste. Compaction may not be economical if transportation and disposal costs are based on weight rather than volume.

(4) Hydro pulping involves grinding the waste in the presence of an oxidizing fluid, such as hypochlorite solution. The liquid is separated from the pulp and discharged directly into the sewer unless local limits require additional pretreatment prior to discharge. The pulp can often be disposed of at a landfill. One advantage is that waste can be rendered innocuous and reduced in size within the same system. Disadvantages are the added operating burden, difficulty of controlling fugitive emissions, and the difficulty of conducting microbiological tests to determine whether all organic matters and infectious organisms have been destroyed from the waste.

(5) On-site disposal is a feasible alternative for hospitals generating two tons or more per day of total solid waste. Common treatment techniques include steam sterilization and incineration. Although other options are available, incineration is currently the preferred method for on-site treatment of hospital waste.

(6) Steam sterilization is limited in the types of medical waste it can treat, but is appropriate for laboratory cultures and/or substances contaminated with infectious organisms. The waste is subjected to steam in a sealed, pressurized chamber. The liquid that may form is drained off to the sewer or sent for processing. The unit is then reopened after a vapor release to the atmosphere, and the solid waste is removed for further processing or disposal. One advantage of steam sterilization is that it has been used for many years in hospitals to sterilize instruments and containers and to treat small quantities of waste. However, since sterilization does not change the appearance of the waste, there could be a problem in gaining acceptance of the waste for landfilling.

(7) A properly designed, maintained, and operated incinerator achieves a relatively high level of organism destruction. Incineration reduces the weight and volume of the waste as much as 95% and is especially appropriate for pathological wastes and sharps. The most common incineration system for medical waste is the controlled-air type. The principal advantage of this type of incinerator is low particulate emissions. Rotary-kiln and grate-type units have been used, but use of grate-type units has been discontinued because of high air emissions. The rotary kiln also puts out high emissions, and the costs have been prohibitive for smaller units.

**Q.33** Which of the following organizational schemes is most prevalent in the passage?

      **a.** chronological order                 **b.** comparison-contrast

c. order by topic                          d. hierarchical order

**Q.34** One disadvantage of the compaction method of waste disposal is that it

       a. cannot reduce transportation costs.

       b. reduces the volume of solid waste material

       c. does not allow hospitals to confirm that organic matter has been eliminated

       d. does not reduce the weight of solid waste material

**Q.35** For hospitals that dispose of waste on their own premises, the optimum treatment method is

       a. incineration          b. compaction.          c. sterilization          d. hydro pulping

**Q.36** According to the passage, which of the following could be safely disposed of in a landfill but might not be accepted by landfill facilities?

       a. hydro pulped material                  b. sterilized waste

       c. incinerated waste                      d. ballet laboratory cultures

**Q.37** The two processes mentioned in the passage that involve the formation of liquid are

       a. compaction and hydro pulping         b. incineration and compaction.

       c. hydro pulping and sterilization         d. sterilization and incineration

**Q.38** According to the passage, two effective methods for treating waste caused by infectious matter are

       a. steam sterilization and incineration       b. hydro pulping and steam sterilization

       c. incineration and compaction             d. hydro pulping and incineration

**Q.39** Hospitals can minimize employee contact with dangerous waste by switching from

       a. a manual cart to a gravity chute.          b. an automated cart to a hydro pulping machine

       c. a gravity chute to a manual cart           d. a manual cart to an automated cart

**Q.40** The process that transforms waste from hazardous to harmless and diminishes waste volume is

       a. sterilization          b. hydro pulping          c. oxidizing          d. compacting

**Q.41** The underlined word exhausting, as it is used in the second paragraph of the passage, most nearly means

       a. debilitating          b. disregarding          c. detonating          d. discharging

**Q.42** Budgetary constraints have precluded some small hospitals from purchasing

       a. pneumatic tubes.         b. rotary kilns         c. sterilization equipment       d. controlled-air kilns

**Q.43** The underlined phrase fugitive emissions in the fourth paragraph most nearly means

       a. contaminants that are extremely toxic       b. contaminants that are illegally discharged

       c. contaminants that escape the disposal process    d. contaminants that come from micro-biological testing

**Passage 2 :**

The walnut tree produces wood that is used for countless purposes, and is considered the finest wood in the world. The wood is easy to work with, yet it is very hard and durable—and when it is polished, it produces a rich, dark luster. It also shrinks and swells less than any other wood, which makes it especially desirable for fine furniture, flooring, and even gun stocks.

In fact, just about every part of the walnut is unusually hard and strong. The nut of the tree is encased inside a very hard shell, which itself is enclosed in a leathery outer covering called a husk. It requires real effort to break through those layers to get at the tasty meat inside.

Yet every part of the walnut is useful to people. The outer husk produces a dark reddish stain that is hard to remove from the hands of the person who opens the nut, and this pigment is widely used in dyes and wood stains. The inner shell is used as an abrasive to clean jet engines. And the meat of the nut is extensively used in cooking, ice cream, flavorings— and just eaten raw. Walnut trees exude a chemical into the soil near their roots which can be poisonous to some trees and shrubs. Fruit trees, for example, will not survive if planted too close to a walnut. Many other plants, such as maple trees or ivy, are not affected by the walnut's presence, and are well-suited to grow in its vicinity.

**Q.44** What is the topic of this passage?

    **a.** the use of walnut wood in furniture      **b.** walnut trees

    **c.** where to plant walnuts      **d.** trees of North America

**Q.45** What is the main idea of the passage?

    **a.** Trees are used for many things.      **b.** Maple trees grow well with walnuts.

    **c.** Walnuts can kill other trees.      **d.** Walnut trees are valuable when planted correctly.

**Q.46** As used in the passage, the underlined word abrasive most nearly means

    **a.** rough.      **b.** disagreeable.      **c.** soft.      **d.** fragrant

**Q.47** The author of the passage probably believes that

    **a.** walnut trees are endangered.      **b.** people should recycle more

    **c.** people should grow walnut trees if possible.      **d.** maple trees are not good for furniture making.

**Q.48** As used in the passage, the underlined word exude most nearly means

    **a.** gives off.      **b.** naked.      **c.** smell bad.      **d.** leaves the area.

**Passage 3:**

One of the most hazardous conditions a firefighter will ever encounter is a backdraft (also known as a smoke explosion). A backdraft can occur in the hot-smoldering phase of a fire when burning is incomplete and there is not enough oxygen to sustain the fire. Unburned carbon particles and other flammable products, combined with the intense heat, may cause instantaneous combustion if more oxygen reaches the fire.

Firefighters should be aware of the conditions that indicate the possibility for a backdraft to occur. When there is a lack of oxygen during a fire, the smoke becomes filled with carbon dioxide or carbon monoxide and turns dense gray or black. Other warning signs of a potential backdraft are little or no visible flame, excessive heat, smoke leaving the building in puffs, muffled sounds, and smoke-stained windows. Proper ventilation will make a backdraft less likely. Opening a room or building at the highest point allows heated gases and smoke to be released gradually. However, suddenly breaking a window or opening a door is a mistake, because it allows oxygen to rush in, causing an explosion.

**Q.49** A backdraft is a dangerous condition for firefighters mainly because

    **a.** there is not enough oxygen for breathing.      **b.** the heat is extremely intense.

    **c.** the smoke is dangerously thick.      **d.** an explosion occurs.

**Q.50** Which of the following is not mentioned as a potential backdraft warning sign?

    **a.** windows stained with smoke      **b.** flames shooting up from the building

    **c.** puffs of smoke leaving the building      **d.** more intense heat than usual

**Q.51** To prevent the possibility of a backdraft, a firefighter should

    **a.** Carries an oxygen tank.      **b.** opens a door to allow gases to escape.

    **c.** Makes an opening at the top of the building.      **d.** breaks a window to release carbon particles.

**Q.52** When compared with a hot, smoldering fire, a fire with visible, high-reaching flames

    **a.** has more oxygen available for combustion.      **b.** has more carbon dioxide available for consumption.

    **c.** produces more dense gray smoke.      **d.** is more likely to cause a backdraft.

**Passage 4**

Marie Curie was one of the most accomplished scientists in history. Together with her husband, Pierre, she discovered radium, an element widely used for treating cancer, and studied uranium and other radioactive substances. Pierre and Marie's amicable collaboration later helped to unlock the secrets of the atom.

Marie was born in 1867 in Warsaw, Poland, where her father was a professor of physics. At the early age, she displayed a brilliant mind and a blithe personality. Her great exuberance for learning prompted her to continue with her studies after high school. She became disgruntled, however, when she learned that the university in Warsaw was closed to women.

Determined to receive a higher education, she defiantly left Poland and in 1891 entered the Sorbonne, a French university, where she earned her master's degree and doctorate in physics.

Marie was fortunate to have studied at the Sorbonne with some of the greatest scientists of her day, one of whom was Pierre Curie. Marie and Pierre were married in 1895 and spent many productive years working together in the physics laboratory. A short time after they discovered radium, Pierre was killed by a horse-drawn wagon in 1906. Marie was stunned by this horrible misfortune and endured heartbreaking anguish. Despondently she recalled their close relationship and the joy that they had shared in scientific research. The fact that she had two young daughters to raise by herself greatly increased her distress.

Curie's feeling of desolation finally began to fade when she was asked to succeed her husband as a physics professor at the Sorbonne. She was the first woman to be given a professorship at the world-famous university. In 1911 she received the Nobel Prize in chemistry for isolating radium. Although Marie Curie eventually suffered a fatal illness from her long exposure to radium, she never became disillusioned about her work. Regardless of the consequences, she had dedicated herself to science and to revealing the mysteries of the physical world.

**Q.53** The Curies' _____ collaboration helped to unlock the secrets of the atom.

      **a.** friendly           **b.** competitive           **c.** courteous           **d.** industrious


**Q.54** Marie had a bright mind and a _____ personality.

      **a.** strong           **b.** lighthearted           **c.** humorous           **d.** strange

**Q.55** When she learned that she could not attend the university in Warsaw, she felt_____.

      **a. hopeless**           **b.** annoyed           **c.** depressed           **d.** worried

**Q.56** Marie _____ by leaving Poland and traveling to France to enter the Sorbonne.

      **a.** challenged authority    **b.** showed intelligence    **c.** behaved           **d.** was distressed

**Q.57.** _____she remembered their joy together.

      **a.** Dejectedly           **b.** Worried           **c.** Tearfully           **d.** Happily

**Q.58.** Her _____ began to fade when she returned to the Sorbonne to succeed her husband.

      **a.** misfortune           **b.** anger           **c.** wretchedness           **d.** disappointment

**Q.59** Even though she became fatally ill from working with radium, Marie Curie was never _____.

      **a.** troubled           **b.** worried.           **c.** disappointed           **d.** sorrowful

**Passage 5**

Many great inventions are greeted with ridicule and disbelief. The invention of the airplane was no exception. Although many people who heard about the first powered flight on December 17,1903, were excited and impressed, others reacted with peals of laughter. The idea of flying an aircraft was repulsive to some people. Such people called Wilbur and Orville Wright, the inventors of the first flying machine, impulsive fools. Negative reactions, however, did not stop the Wrights. Impelled by their desire to succeed, they continued their experiments in aviation.

Orville and Wilbur Wright had always had a compelling interest in aeronautics and mechanics. As young boys they earned money by making and selling kites and mechanical toys. Later, they designed a newspaper-folding machine, built a printing press, and operated a bicycle-repair shop. In 1896, when they read about the death of Otto Lilienthal, the brother's interest in flight grew into a compulsion.

Lilienthal, a pioneer in hang-gliding, had controlled his gliders by shifting his body in the desired direction. This idea was repellent to the Wright brothers, however, and they searched for more efficient methods to control the balance of airborne vehicles. In 1900 and 1901, the Wrights tested numerous gliders and developed control techniques. The brothers' inability to obtain enough lift power for the gliders almost led them to abandon their efforts.

After further study, the Wright brothers concluded that the published tables of air pressure on curved surfaces must be wrong. They set up a wind tunnel and began a series of experiments with model wings. Because of their efforts, the old tables were repealed in time and replaced by the first reliable figures for air pressure on curved surfaces. This work, in turn, made it possible for them to design a machine that would fly. In 1903 the Wrights built their first airplane, which

cost less than one thousand dollars. They even designed and built their own source of propulsion lightweight gasoline engine. When they started the engine on December 17, the airplane pulsated wildly before taking off. The plane managed to stay aloft for twelve seconds, however, and it flew one hundred twenty feet.

By 1905 the Wrights had perfected the first airplane that could turn, circle, and remain airborne for half an hour at a time. Others had flown in balloons or in hang gliders, but the Wright brothers were the first to build a full-size machine that could fly under its own power. As the contributors of one of the most outstanding engineering achievements in history, the Wright brothers are accurately called the fathers of aviation.

**Q. 60** The idea of flying an aircraft was _____to some people.

    **a.** boring         **b.** distasteful         **c.** exciting         **d.** needless

**Q. 61** People thought that the Wright brothers had _____.

    **a.** acted without thinking         **b.** been negatively influenced.
    **c.** been too cautious         **d.** had not given enough thought

**Q.62** The Wright's interest in flight grew into a _____.

    **a.** financial empire     **b.** plan         **c.** needs to act         **d.** foolish thought

**Q.63** Lilienthal's idea about controlling airborne vehicles was _____the Wrights.

    **a.** proven wrong by     **b.** opposite to the ideas of     **c.** disliked by     **d.** accepted by

**Q.64** The old tables were __ and replaced by the first reliable figures for air pressure on curved surfaces.

    **a.** Destroyed         **b.** canceled         **c.** multiplied         **d.** discarded

**Each Question carries 2 Marks**

**Q. 65**. Last year, about 2,400 people participated in a local Fourth of July parade. This year, about 3,200 people participated. What was the approximate percent increase in participation?

      **a.** 25%            **b.** 50%            **c.** 75%            **d.** 33%

**Q. 66** . Dr. Warren purchased some medical supplies for $670. Sales tax rate was 6.5%. How much did Dr. Warren spend on these supplies?

      **a.** $43.55          **b.** $711.25        **c.** $4355.00      **d.** $713.55

**Q. 67** Kenji has 8 apple trees that each produces about 20 bushels of apples, and 12 apple trees that each produces about 25 bushels. In total, about how many bushels of apples do his trees produce?

      **a.** 45              **b.** 900            **c.** 460           **d.** 300

**Q. 68**. Four friends went out for dinner. The bill, including tax, totaled $64.00. If they want to leave a 15% tip and want to share the bill and tip equally, what should each person pay?

      **a.** $16.00          **b.** $18.40         **c.** $18.00        **d.** $73.60

**Q. 69** The Williams family wants to cover one wall in their living room with 1-foot square mirror tiles. The wall measures 8 feet by 10 feet. How many mirror tiles will they need to cover the wall?

      **a.** 8              **b.** 10            **c.** 18            **d.** 80

**Q. 70** Tracy has $35 to buy comic books and to pay for a movie ticket. Each comic book costs $3. The movie ticket costs $10. Which inequality can be used to determine how many comic books, b, Tracy can buy?

      **a.** $35 - 3b \leq 10$      **b.** $35 - 3b \geq 10$      **c.** $35 - 10b \leq 3$      **d.** $35 - 10b \geq 3$

**Q.71** Briana biked 2.82 miles on Monday, 3.75 miles on Wednesday, and 2.13 miles on Friday. Briana estimated the total distance she biked. Which statement correctly compares an estimate of the total distance with the exact total distance that Briana biked?

      **a.** The estimate 2 + 3 + 2 is smaller than the exact answer but is within 1 mile.

      **b.** The estimate 2 + 4 + 2 is greater than the exact answer but is within 1 mile.

      **c.** The estimate 3 + 4 + 2 is smaller than the exact answer but is within 1 mile.

      **d.** The estimate 3 + 4 + 2 is greater than the exact answer but is within 1 mile.

**Q. 72** It is highly likely that Malika will randomly select the letter A from a group of letters. From which group of letters could Malika be selecting?

      **a.** A, E, I, O, U      **b.** A, B, C, A, D      **c.** A, F, A, G, A, H      **d.** A, A, J, A, A, K

**Q. 73** Angles F and G are complementary angles. Angles G and H are supplementary angles. The degree measure of each angle is a whole number. What is the smallest possible measure of angle H?

      **a.** 1°            **b.** 89°          **c.** 91°          **d.** 179°

**Q. 74** Chico is saving for new shoes that cost $87. He already has $9 saved, and he will save the same amount each week. Chico wants to buy the shoes in 6 weeks. The inequality shown below can be used to determine x, the amounts that Chico can save each week and still buy the new shoes in 6 weeks.

$9+6x \geq 87$

What is the least amount Chico can save each week and still buy the new shoes in 6 weeks?

      **a.** $9            **b.** $13          **c.** $15         **d.** $16

**Q. 75** Which situation can be represented by the equation y = 8x?

    **a.**    Nilay bought x items at a store. Each item costs $8. Nilay spent a total of y dollars at the store.

**b.** Nilay baked y batches of cookies. There were 8 cookies in each batch. Nilay baked a total of x cookies.

**c.** Nilay correctly answered x questions on a quiz. Each question was worth y points. Nilay received a total of 8 points on the quiz.

**d.** Nilay earned $8 for babysitting. He also earned x dollars for mowing lawns. Nilay earned a total of y dollars for babysitting and mowing lawns.

**Q. 76** Mr. Garcia needs at least 60 paintbrushes for his art classes. He has 22 paintbrushes already and will buy more paintbrushes in packages of 8. Which inequality can be used to find how many packages of paintbrushes, p, Mr. Garcia needs to buy in order to have at least 60 paintbrushes?

**a.** $8p - 22 \leq 60$      **b.** $8p - 22 \geq 60$      **c.** $8p + 22 \leq 60$      **d.** $8p + 22 \geq 60$

**Q. 77** Use the expression below to answer the question.

$20 + 8y - 9y - 21$

Which expression is equivalent?

**a.** $2(10 + 4y - 7y - 19)$    **b.** $2(10 + 4y) - 3(3y - 7)$    **c.** $4(5 + 2y - 5y - 17)$    **d.** $4(5 + 2y) - 3(3y + 7)$

**Q. 78** In Ms. Morales's class, the ratio of boys to girls is 3:7. The class sizes at Ms. Morales's school range from 22 to 34 students per class. What is the total number of students in Ms. Morales's class?

**a.** 21 students      **b.** 24 students      **c.** 28 students      **d.** 30 students

**Q. 79** Sara is buying items at a store. Her total comes to $44.97. She uses all of the money that is still on a gift card to pay for part of the total. She pays the remaining $34.17 with cash. Which percentage best describes the part of the total that Sara paid for with the gift card?

**a.** 1.32%      **b.** 10.8%      **c.** 24%      **d.** 76%

**Q.80.** 9x+2=3x+38

**a.** 6      **b.** 9      **c.** 12      **d.** 3

**Q. 81.** 4x-8=x-14

**a.** -2      **b.** 2      **c.** -8      **d.** 8

**Q. 82.** 7x-3=9x+5

**a.** 6      **b.** -4      **c.** 9      **d.** 13

**Q. 83** 5x+4 = 7x-8

**a.** 8      **b.** 6      **c.** 11      **d.** -5

**Q. 84** 2x-3+5x= 7+4x+2

**a.** 12      **b.** 4      **c.** 17      **d.** -8

**Q. 85** What is 8% of $600?

**a.** $580      **b.** $480      **c.** $48      **d.** $58

**Q. 86** Which is the longest distance?

**a.** 3500cm      **b.** 65.5m      **c.** 75000mm      **d.** 0.1km

**Q. 87** If 2 fligs make a flog and 3 flogs make a flug, how many fligs in 12 flugs?

**a.** 72      **b.** 17      **c.** 36      **d.** 34

**Q. 88** Zaria earns $6 per hour at her job. She also earned a bonus of $30 this week. To find the total amount she earned this week, Zaria used the expression below, where *h* is the number of hours she worked this week.

**6*h* + 30**

Zaria worked 32 hours this week. What is the total amount of money Zaria earned this week?

**a.** $68      **b.** $192      **c.** $222      **d.** $662

**Q. 89** Multiply 6.23 × **9.3**

**a.** 57.939      **b.** 74.76      **c.** 579.39      **d.** 747.6

**Q.90.** If 2x – 7 = 19, then x = _____

**Q. 91** To find the area of a rectangle, you _____ the length by the width.

     **a.** Add      **b.** Subtract      **c.** Multiply      **d.** Divide

**Q. 92** On August 1st, a plant was 79 centimeters tall. In June of that year it grew 12 centimeters, then 9 more centimeters in July. How many centimeters tall was it on June 1st?

     **a.** 67      **b.** 70      **c.** 100      **d.** 58

**Q. 93** A two-year-old car is worth $7,431; a five-year-old car is worth $4,219. How much more is the two-year-old car worth than the five-year-old car?

     **a.** $3,211      **b.** $3,212      **c.** $11,650      **d.** $11,640

**Q. 94.** 534 ÷ 8 =

     **a.** 66 Remainder 4      **b.** 66 Remainder 6      **c.** 76 Remainder 3      **d.** 76 Remainder 6

**Q. 95.** 517 ÷ 32 =

     **a.** 16 Remainder 25      **b.** 15 Remainder 37      **c.** 15 Remainder 7      **d.** 16 Remainder 5

**Q. 96** Which of the following numbers is smallest?

     **a.** 1/5      **b.** 3/10      **c.** 4/15      **d.** 3/16

**Each Question carries 2 Marks**

**Instructions: For the following questions, choose the answer that best completes the comparison.**

**Q. 97** meaningful: insignificant: essential: _____.

    **a.** basic         **b.** important         **c.** unremarkable         **d.** unnecessary

**Q.98** simple: complex: trivial: _____.

    **a.** inconspicuous         **b.** significant         **c.** permanent         **d.** irrelevant

**Q.99** neophyte: novice: pursuit: _____.

    **a.** passion         **b.** restraint         **c.** quest         **d.** speed

**Q.100.** regard: esteem: ambivalence: _____.

    **a.** uncertainty         **b.** withdrawal         **c.** resemblance         **d.** injustice

**Q.101.** elated: despondent: enlightened: _____.

    **a.** aware         **b.** tolerant         **c.** miserable         **d.** ignorant

**Q.102.** divulge: conceal: conform: _____.

    **a.** construe         **b.** differ         **c.** retain         **d.** offer

**Q.103.** restrain: curb: recant: _____.

    **a.** foretells         **b.** retract         **c.** entertain         **d.** resent

**Q.104.** admire: despise: praise: _____.

    **a.** ravage         **b.** surrender         **c.** admonishes         **d.** warn

**Q.105.** advance: retreat: curtail: _____.

    **a.** damage         **b.** discard         **c.** consumes         **d.** prolong

**Q.106.** implant: embed: expel: _____.

    **a.** beseechs         **b.** oust         **c.** accept         **d.** examine

**Instructions: Choose the synonym for each of the words in italics.**

**Q.107.** Which word means the same as distinct?

    **a.** satisfied         **b.** imprecise         **c.** uneasy         **d.** separate

**Q.108.** Which word means the same as flagrant?

    **a.** secret         **b.** worthless         **c.** noble         **d.** glaring

**Q.109.** Which word means the same as oration?

    **a.** nuisance         **b.** independence         **c.** address         **d.** length

**Q.110.** Which word means the same as libel?

    **a.** description         **b.** praise         **c.** destiny         **d.** slander

**Q.111.** Which word means the same as philanthropy?

    **a.** selfishness         **b.** fascination         **c.** disrespect         **d.** charity

**Q.112.** Which word means the same as proximity?

    **a.** distance         **b.** agreement         **c.** nearness         **d.** intelligence

**Q.113.** Which word means the same as negligible?

    **a.** insignificant         **b.** delicate         **c.** meaningful         **d.** illegible

**Q.114.** Which word means the same as vigilant?

**a.** nonchalant      **b.** watchful      **c.** righteous      **d.** strenuous

**Q.115.** Which word means the same as astute?

     **a.** perceptive      **b.** inattentive      **c.** stubborn      **d.** elegant

**Q.116.** Which word means the same as collaborate?

     **a.** cooperate      **b.** convince      **c.** entice      **d.** elaborate

**Instructions:** Choose the correct spelling for the missing word in each of the following sentences.

**Q.117.** Many lifelong rules can be learned in _____.

     **a.** kindergarten      **b.** kindergarden      **c.** kindregarden      **d.** kintergarden

**Q.118**. She received her _____ of arts degree last spring.

     **a.** bachelor      **b.** bacheler      **c.** batchelor      **d.** batcheler

**Instructions: Choose the best word to fill the blank.**

**Q. 119** She shed _____ tears when she heard the tragic news.

     **a.** copious      **b.** scant      **c.** nonchalant      **d.** genteel

**Q. 120** After graduation, Charles requested a/an _____ so that he did not have to pay his school loans immediately.

     **a.** surrogate      **b.** deferment      **c.** tincture      **d.** improvement

**Q.121.** With this group of _____ personalities, she was sure her party would be a success.

     **a.** scintillating      **b.** mundane      **c.** irradiated      **d.** burnished

**Q.122**. The exhibit at the botanical gardens is an unusual collection of cacti and other _____ from around the world.

     **a.** perennials      **b.** succulents      **c.** annuals      **d.** tubers

**Q.123.** His _____ behavior made him seem childish and immature.

     **a.** beguiling      **b.** receding      **c.** forlorn      **d.** puerile

**Q.124**. The _____ young woman gave generously to many worthy causes.

     **a.** incisive      **b.** benevolent      **c.** gregarious      **d.** personable

**Q.125.** The _____ president differs from the past president on social reform issues.

     **a.** loquacious      **b.** consummate      **c.** ersatz      **d.** incumbent

**Q.126.** Anthony, a meticulous young man, always watered his neighbor's plants _____ when they went away on vacation.

     **a.** terminally      **b.** perpendicularly      **c.** assiduously      **d.** sagaciously

**Q.127.** The old man was _____; he refused to leave his home, even when he was warned of rising floodwaters.

     **a.** recitative      **b.** redundant      **c.** repatriated      **d.** recalcitrant

**Q.128** The _____ advice offered by his friend saved him from making a grave mistake.

     **a.** insensitive      **b.** judicious      **c.** metaphorical      **d.** unorthodox

**Each Question carries 2 Marks**

**Q. 129** In 2019, in which country there was a widespread protest against an Extradition Amendment Bill?

    **a.** Venezuela      **b.** Sri Lanka      **c.** Hong Kong      **d.** India

**Q. 130.** How the quality of printer is measured?

    **a.** Alphabet per strike      **b.** Words per Inch      **c.** Strike per Inch      **d.** Dots per Inch

**Q. 131** The earth has the size among all the planets:

    **a.** Fifth      **b.** Third      **c.** Fourth      **d.** Seventh

**Q. 132.** Which of the following planet is the nearest to the earth?

    **a.** Mercury      **b.** Venus      **c.** Mars      **d.** Jupiter

**Q. 133** The world's largest airport terminal "under one roof" with a capacity to serve 90 million passengers is opened in.

    **a.** Kochi      **b.** Istanbul      **c.** Beijing      **d.** Tokyo

**Q. 134** The term "Duck" associate with:

    **a.** Soccer      **b.** Volleyball      **c.** Golf      **d.** Cricket

**Q. 135** How many squares are there in chess game?

    **a.** 36      **b.** 48      **c.** 64      **d.** 72

**Q. 136.** The first Asian games were held in

    **a.** Manila      **b.** Tokyo      **c.** Jakarta      **d.** New Delhi

**Q. 137** Among the SAARC countries the most densely populated country.

    **a.** Bangladesh      **b.** India      **c.** Pakistan      **d.** Maldives

**Q. 138** SAARC was founded in:

    **a.** New Delhi      **b.** Dhaka      **c.** Geneva      **d.** Thimphu

**Q. 139** Which among the following planets is smaller in size than Earth?

    **a.** Neptune      **b.** Venus      **c.** Saturn      **d.** Uranus

**Q. 140** The word "Aryan" means

    **a.** of good family      **b.** Cultivator      **c.** Pastoral society      **d.** celibate

**Q. 141** where is the permanent headquarters of SAARC?

    **a.** Thimphu      **b.** Dhaka      **c.** New Delhi      **d.** Kathmandu

**Q.142** The disease caused by virus is.

    **a.** Typhoid      **b.** Cholera      **c.** Common Cold      **d.** Malaria

**Q. 143** WTO came into existence in the year

    **a.** 1977      **b.** 1985      **c.** 1995      **d.** 1950

**Q.144** Who among the following has been chosen by Harvard University (US) for its 2018 Gleitsman Award?

    **a.** Emma Watson      **b.** Narendra Modi      **c.** Malala Yousafzai      **d.** Wangari Maathai

**Q. 145** Who among the following is not a recipient of The United Nations Prize in the Field of Human Rights (UN Human Rights Prize) 2018?

    **a.** Rebeca Gyumi      **b.** Malala Yousafzai      **c.** Front Line Defenders      **d.** Joênia Wapichana

**Q.146** Astana is the capital city of

    **a.** Albania      **b.** Kazakhstan      **c.** Botswana      **d.** Haiti

**Q.147.** New Academy Prize in Literature 2018 has been conferred upon

    **a.** Guillaume Musso    **b.** Maryse Conde    **c.** Édouard Louis    **d.** 58 Gilles Legardinier

**Q.148** Nobel Peace Prize 2018 has been conferred upon

    **a.** Al Gore, Martti ahtisaari    **b.** Denis Mukwege, Nadia Murad

    **c.** Mohamed ElBaradei, Joseph Rothblatt    **d.** Oscar Arias, Shimon Peres

**Q. 149** Which country rejoins Commonwealth after quitting over criticism of its human rights record?

    **a.** Nepal    **b.** Maldives    **c.** Japan    **d.** Sri Lanka

**Q. 150**_____ declares coronavirus as public health emergency of international concern?

    **a.** UNICEF    **b.** EU    **c.** United Nations    **d.** WHO

**Q. 151** Which of the following has announced its exit from the European Union?

    **a.** Germany    **b.** Switzerland    **c.** UK    **d.** France

**Q. 152** Which country topped the 2019 Democracy Index?

    **a.** Norway    **b.** Finland    **c.** Sweden    **d.** Iceland

**Q. 153** Selfie museum has recently been inaugurated in which city?

    **a.** New York    **b.** Dubai    **c.** Sydney    **d.** Brussels

**Q. 154** Amazon rainforest spans over 9 countries. In August 2019, in which country deadly fire broke out in the amazon forest?

    **a.** Venezuela    **b.** Brazil    **c.** Colombia    **d.** Argentina

**Q. 155** On 3 February 2020, United States assassinated Iran's top military general in

    **a.** Afghanistan    **b.** Iran    **c.** Iraq    **d.** Syria

**Q. 156** Who won the Peace Nobel Prize 2019 for promoting peace and reconciliation?

    **a.** Abiy Ahmed Ali    **b.** Donald Trump    **c.** Barack Obama    **d.** Muhammadu Buhari

**Q. 157** Who is current secretary general of the United Nations?

    **a.** Javier Perez de Cuellar    **b.** Kofi Annan    **c.** Ban-Ki-Moon    **d.** Antonio Guterres

**Q. 158** In 2019, in which country there was a widespread protest against an Extradition Amendment Bill?

    **a.** Venezuela    **b.** Sri Lanka    **c.** Hong Kong    **d.** India

**Q.159** Which gas is safe and an effective extinguisher for all confined fires?

    **a.** Nitrogen dioxide    **b.** Carbon dioxide    **c.** Sulphur dioxide    **d.** Nitrous oxide

**Q.160** Which one of the following gases are released from the ground, minutes or hours before an earthquake is about to strike?

    **a.** Xenon    **b.** Argon    **c.** Helium    **d.** Radon