Quantitative Section

Q1:
Which of the following is equivalent to \((x)(x)(x)(x)\), for all \(x\)?
   a) \(4x\)
   b) \(x^4\)
   c) \(x + 4\)
   d) \(4^x\)
   e) \(2x^2\)

Q2:
A rectangle is twice as long as it is wide. If the width of the rectangle is 3 inches, what is the rectangle’s area, in square inches?
   a) 6
   b) 9
   c) 12
   d) 15
   e) 18

Q3:
\(3 \times 10^{-4}\) =?
   a) \(-30,000\)
   b) \(-120\)
   c) 0.00003
   d) 0.0003
   e) 0.12

Q4:
Which of the following is divisible by 3 (with no remainder)?
   a) 2,725
   b) 4,210
   c) 4,482
   d) 6,203
   e) 8,105

Q5:
Which of the following is equal to \(\sqrt{30}\)?
   a) \(2\sqrt{5}\)
   b) \(2\sqrt{10}\)
   c) \(4\sqrt{5}\)
   d) 10
   e) \(10\sqrt{2}\)

English Section
Q1: Choose the lettered pair below that best expresses a relationship similar to that expressed in this pair: “COLOR : SPECTRUM”
   a) tone : scale
   b) sound : waves
   c) verse : poem
   d) dimension : space
   e) cell : organism

Q2: Early_____ of hearing loss is _____ by the fact that the other senses are able to compensate for moderate amounts of loss, so that people frequently do not know that their hearing is imperfect.
   a) Discovery, indicated
   b) Development, prevented
   c) Detection, complicated
   d) Treatment, facilitated
   e) Incidence, corrected

Q3: Because its average annual rainfall is only about four inches, one of the major tasks faced by the country has been to find _____ sources of water.
   a) discontinuous
   b) natural
   c) supplementary
   d) pervasive
   e) initial

Read the following passage carefully and answer the following questions at its end:
According to Aristotle, the most important question in the physical world was the search for happiness. He was not an idealist preaching impossible ideals and counsels of perfection. His scientific training made him a realist who believed that happiness was the aim of life and every activity, even ethics, was subordinate to it. He tries to explore the nature of happiness and explains it by differentiating man from other animals in that he possesses the thinking faculty by which he masters the earth and surpasses all living beings and its development will give him fulfillment and happiness.

Q4: In the given paragraph:
   a) Aristotle surpasses the earth and all living beings.
   b) Aristotle tries to explore the nature of physical world.
   c) Aristotle speaks about all living beings.
   d) Aristotle tries to explore the nature of happiness.

Q5: Man differs from other animals in having:
   a) A brain
   b) Speaking faculty
   c) Thinking faculty
   d) Eating faculty
A particular seafood restaurant serves dinner Tuesday through Sunday. The restaurant is closed on Monday. Five entrees—snapper, halibut, lobster, mahi mahi, and tuna—are served each week according to the following restrictions:

- Halibut is served on three days each week, but never on Friday.
- Lobster is served on one day each week.
- Mahi mahi is served on three days each week, but never on consecutive days.
- Halibut and snapper are both served on Saturday and Sunday.
- Tuna is served five days each week.
- No more than three different entrees are served on any given day.

**Q1:**
On which of the following pairs of days could the restaurant’s menu of entrees be identical?

- a) Friday and Sunday
- b) Tuesday and Wednesday
- c) Saturday and Sunday
- d) Wednesday and Friday
- e) Thursday and Friday

**Q2:**
Which of the following is a complete and accurate list of the days on which halibut and lobster may both be served?

- a) Tuesday, Thursday
- b) Tuesday, Wednesday, Thursday
- c) Monday, Tuesday, Wednesday
- d) Tuesday, Wednesday, Thursday, Friday
- e) Tuesday, Wednesday, Thursday, Saturday

**Q3:**
If mahi mahi is served on Saturday, it could be true that:

- a) snapper and mahi mahi are both served on Sunday
- b) snapper and halibut are both served on Tuesday
- c) lobster and halibut are both served on Thursday
- d) tuna and snapper are both served on Saturday
- e) lobster and snapper are both served on Friday

**Q4:**
Which of the following statements provides sufficient information to determine on which three days halibut is served?

- a) Mahi mahi and lobster are served on the same day
- b) Lobster and snapper are both served on Tuesday.
- c) Tuna is served on Saturday, and lobster is served on Tuesday.
- d) Mahi mahi is served on Saturday, and snapper is served on all but one of the six days.
- e) Tuna is served on Sunday, and snapper is served on Tuesday and Thursday.