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Topic Break Down

Topic	No. of Questions
Topic 1, Mathematics	492
Topic 2, Reading	354
Topic 3, Writing	325
Total	1171

QUESTION NO: 1

How many 5 digit numbers are there with distinct digits?

- A. 144
- B. 27216
- C. 4386
- D. 6432
- E. 720

ANSWER: B**QUESTION NO: 2**

What is the sum of the polynomials $3a^2b + 2a^2b^2$ and $-ab^2 + a^2b^2$?

- A. $3a^2b - ab^2 + 3a^2b^2$
- B. $3a^2b - ab^2 + 2a^2b^2$
- C. $2a^2b + 3a^2b^2$
- D. $2a^2b^3 + 2a^4b^4$
- E. $-3a^3b^3 + 2a^4b$

ANSWER: A**QUESTION NO: 3**

Read the following sentences and select the option that corrects the underlined sections. If the sentences sections are correct as written, choose option A.

During colonial days, a school room looked rather empty.

- A. colonial days, a school room looked
- B. colonial days, a schoolroom looked
- C. colonial days; a schoolroom looked
- D. colonial days; a school room looked

E. colonial days- a schoolroom looked

ANSWER: B

QUESTION NO: 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.

Her ____ began to fade when she returned to the Sorbonne to succeed her husband.

- A. misfortune
- B. anger
- C. wretchedness
- D. disappointment
- E. ambition

ANSWER: C

QUESTION NO: 5

The passages below contain several enumerated sections, each of which may or may not contain an error of grammar, usage or style. For each multiple-choice question, the first choice reproduces the selection from the original passage. The other choices offer alternatives. Select the best choice from among the five choices offered for each enumerated selection.

Piper Fly-In

One of the year's highlight events is (41) coming up next month. Get ready for (42) the annual Piper Cub Fly-In which is a favorite (43) of young and old, too. (44) This annual event is the sort of 'homecoming' for Piper aircraft and (45) aviation enthusiasts, and is held at the William T. Piper Memorial Airport (46) in Lock Haven and it is right next to the old Piper factory and museum. (47) This years featured airplanes will be the J-5, PA-25 Pawnee and PA-36 Brave.

(48) You get ready for five of the most (49) fun-filled, educational and relaxing and social days of the year as the fly-in kicks off on June 17. (50) The annual fly-in has been expanded to five days this year, to accommodate (51) the many visitors who arrives (52) prior to the normal Wednesday first day. (53) Another addition to the fly-in this year will be seaplane landing services. (54) In addition to the educational forums, the daily corn boil, the nightly entertainment, the fantastic food vendors, the exhibit hall and the picnic, (55) there will be the aviators (56) favorites – a spot landing contest on Thursday and (another addition!) a bomb drop contest on Friday.

(57) We'll also have a DC-3 "Gooney Bird" will be on hand (58) throughout the week to offer rides and tours in the historic aircraft. Live entertainment has been lined up for all five nights of the flyin, (59) and Joe's Cub Restaurant is open for your enjoyment. (60) Come early if you're planning on camping, as campground spaces fill quickly. If you plan on flying in, have a look at the Air Ops procedures which are presented in the newsletter.

- A. throughout the week to offer rides and tours in the historic aircraft
- B. throughout the week, to offer rides and tours in the historic aircraft
- C. throughout the week. Rides and tours will be offered in the historic aircraft.
- D. throughout the week offering rides and tours in the historic aircraft.
- E. throughout the week which offers rides and tours in the historic aircraft

ANSWER: C

QUESTION NO: 6

The passages below contain several enumerated sections, each of which may or may not contain an error of grammar, usage or style. For each multiple-choice question, the first choice reproduces the selection from the original passage. The other choices offer alternatives. Select the best choice from among the five choices offered for each enumerated selection.

Zebra Mussel

An increasing number of lakes and rivers in the northern United States invaded are being by a species no larger than a fingernail.

The zebra mussel probably steamed aboard a transatlantic ship sometime in the mid-1980s from the Caspian Sea into U.S. waterways. Despite its growth was explosive, partly because the species was preyed upon by very few native predators in its new environment. As a consequence, the zebra mussels did find a plentiful food supply. They eat huge amounts of phytoplankton, which tiny free-floating sea organisms that dwell in water. Scientists are concerned when the mussels may compete aggressively with other species that depend on the same food supply.

Being invasive, the species concerns industry, public utilities, and boat owners. Zebra mussels cluster in huge colonies, being anchored themselves to any hard surface. These colonies can clog your water intake pipes of electric and water treatment plants. Fishery specialists are currently casting about and baiting their hooks to gun down control methods that will cause the lowest amount of damage to water supplies and other aquatic species. Two of the alternatives exploring are interrupting the species reproductive cycle and finding a bacterium harmful only to zebra mussels.

- A. a plentiful food supply.

- B. an adequate supply of plentiful food.
- C. a sufficient supply of enough food.
- D. sufficient plenty of adequate food.
- E. plentiful food in adequate supply.

ANSWER: A

QUESTION NO: 7

Sarah needs to make a cake and some cookies. The cake requires $\frac{3}{8}$ cup of sugar and the cookies require $\frac{3}{5}$ cup of sugar. Sarah has $\frac{15}{16}$ cups of sugar.

Does she have enough sugar, or how much more does she need?

- A. She has enough sugar.
- B. She needs $\frac{1}{8}$ of a cup of sugar.
- C. She needs $\frac{3}{80}$ of a cup of sugar.
- D. She needs $\frac{4}{19}$ of a cup of sugar.
- E. She needs $\frac{1}{9}$ of a cup of sugar.

ANSWER: C

QUESTION NO: 8

Determine whether the underlined portion of the sentence below is correct or whether it needs to be revised.

For every song that is a hit, it is critical to have a quality “beat” and quality lyrics; however, music companies hire professional producers and song writers.

- A. however
- B. therefore
- C. nevertheless
- D. and
- E. yet

ANSWER: B

QUESTION NO: 9

If $r = 5z$ then $15z = 3y$, then $r =$

- A. y
- B. $2y$
- C. $5y$
- D. $10y$
- E. $15y$

ANSWER: A**QUESTION NO: 10**

You need $\frac{4}{5}$ cups of water for a recipe. You accidentally put $\frac{1}{3}$ cups into the mixing bowl with the dry ingredients. How much more water in cups do you need to add?

- A. $\frac{1}{3}$ cups
- B. $\frac{2}{3}$ cups
- C. $\frac{1}{15}$ cups
- D. $\frac{7}{15}$ cups
- E. $\frac{7}{16}$ cups

ANSWER: D**QUESTION NO: 11**

"Old woman," grumbled the burly white man who had just heard Sojourner Truth speak, "do you think your talk about slavery does any good? I don't care any more for your talk than I do for the bite of a flea."

The tall, imposing black woman turned her piercing eyes on him. "Perhaps not," she answered, "but I'll keep you scratching."

The little incident of the 1840s sums up all that Sojourner Truth was: utterly dedicated to spreading her message, afraid of no one, forceful and witty in speech.

Yet forty years earlier, who could have suspected that a spindly slave girl growing up in a damp cellar in upstate New York would become one of the most remarkable women in American history? Her name then was Isabella (many slaves had no last names), and by the time she was fourteen she had seen both parents die of cold and hunger. She herself had been sold several times. By 1827, when New York freed its slaves, she had married and borne five children.

The first hint of Isabella's fighting spirit came soon afterwards, when her youngest son was illegally seized and sold. She marched to the courthouse and badgered officials until her son was returned to her.

In 1843, inspired by religion, she changed her name to Sojourner(meaning “one who stays briefly”) Truth, and, with only pennies in her purse, set out to preach against slavery. From New England to Minnesota she trekked, gaining a reputation for her plain but powerful and moving words. Incredibly, despite being black and female (only white males were expected to be public speakers), she drew thousands to town halls, tents, and churches to hear her powerful, deep-voiced pleas on equality for blacks-and for women. Often she had to face threatening hoodlums. Once she stood before armed bullies and sang a hymn to them. Awed by her courage and her commanding presence, they sheepishly retreated.

During the Civil War she cared for homeless ex-slaves in Washington. President Lincoln invited her to the White House to bestow praise on her. Later, she petitioned Congress to help former slaves get land in the West. Even in her old age, she forced the city of Washington to integrate its trolley cars so that black and white could ride together.

Shortly before her death at eighty-six, she was asked what kept her going. “I think of the great things,” replied Sojourner.

She traveled from New England to

- A. Canada
- B. California
- C. Minnesota
- D. Alaska
- E. Virginia

ANSWER: C

QUESTION NO: 12

When I'm in New York but feeling lonely for Wyoming I look for the western movie ads in the subway. But the men I see in those posters with their stern, humorless looks remind me of no one I know in the east. In our earnestness to romanticize the cowboy we've ironically disesteemed his true character. If he's "strong and silent" it's because there's probably no one to talk to. If he "rides away into the sunset" it's because he's been on horseback since four in the morning moving cattle and he's trying, fifteen hours later, to get home to his family. If he's "a rugged individualist" he's also part of a team: ranch work is teamwork and even the glorified open-range cowboys of the 1880s rode up and down the Chisholm Trail in the company of twenty or thirty other riders. It's not toughness but "toughing it out" that counts. In other words, this macho, cultural artifact the cowboy has become is simply a man who possesses resilience, and an instinct for survival. "Cowboys are just like a pile of rocks-everything happens to them. They get climbed on, kicked, rained and snowed on, and scuffed up by the wind." Their job is "just to take it," one old-timer told me.

For which of the following statements does the passage give apparently contradictory evidence?

- A. The cowboy's work takes endurance.
- B. Cowboys work alone.
- C. Cowboys are adequately paid.
- D. The cowboy's image has become romanticized in American culture.
- E. Cowboys think of themselves as humorless.

ANSWER: B**QUESTION NO: 13**

In 1949, a study of heart disease included 5,137 adults: 2,292 men and 2,845 women. All the individuals were 49 to 70 years of age, and none showed any signs of coronary artery disease. After 14-16 years of careful follow-up, it was found that:

- I. 151 men and 37 women showed evidence of coronary artery disease that would account for a heart attack.
- II. 102 men and 18 women died of coronary artery disease before they reached the age of 65.
- III. 58 percent of the men and 39 percent of the women died within one hour of having a heart attack.
- IV. For both men and women, sudden death was more likely if they were under age 55 at the time of the attack.
- V. Not all heart attacks produce symptoms. A considerable number of men and women had a myocardial infarction (heart muscle damage) without knowing it. Of those who suffered such "silent coronaries"; 22 percent of the men and 35 percent of the women did not know muscle damage had occurred.

Based on the results of this experiment, of the people who died of coronary artery disease before age 65

- A. 18 percent were women
 - B. 20 percent were women
 - C. 85 percent were men
 - D. 102 percent were men
 - E. 151 men and 37 women showed evidence of coronary artery disease that would account for a heart attack.
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 - III. 58 percent of the men and 39 percent of the women died within one hour of having a heart attack.
 - IV. For both men and women, sudden death was more likely if they were under age 55 at the time of the attack.
 - F. Not all heart attacks produce symptoms. A considerable number of men and women had a myocardial infarction (heart muscle damage) without knowing it. Of those who suffered such "silent coronaries"; 22 percent of the men and 35 percent of the women did not know muscle damage had occurred.
- Based on the results of this experiment, of the people who died of coronary artery disease before age 65

ANSWER: C**QUESTION NO: 14**

A student has earned scores of 87, 81, and 88 on the first 3 of 4 tests. If the student wants an average (arithmetic mean) of exactly 87, what score must she/he earn on the fourth test?

- A. 85
- B. 86
- C. 87

D. 92

E. 93

ANSWER: D**QUESTION NO: 15**

At a company fish fry, $\frac{1}{2}$ in attendance are employees. Employees' spouses are $\frac{1}{3}$ of the attendance. What is the percentage of the people in attendance who are not employees or employee spouses?

A. 10.5%

B. 16.7%

C. 25%

D. 32.3%

E. 38%

ANSWER: B**QUESTION NO: 16**

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A. may compete aggressively with other

B. may compete aggressively with others'

- C. may compete aggressively with others
- D. may compete aggressively with another's
- E. may compete aggressively with one another's

ANSWER: A

QUESTION NO: 17

Search for grammatical errors in the underlined sections of the following sentences and select the option that best corrects them. If there is no error, choose option A.

The fact that boxing is known to cause head injuries and brain damage should lead us to inform the public and push for a ban on boxing.

- A. should lead us to inform
- B. could lead us to inform
- C. should of led us to inform
- D. will lead us to inform
- E. should have led us to inform

ANSWER: A

Explanation:

Substituting "could" or "will" for "should" changes the sentence meaning. "Should of" incorrectly substitutes the preposition "of" for the auxiliary verb "have;" there is no such construction. Even the correct form "should have led" (should have led us to inform,) is subjunctive mood, past tense, disagreeing with the present-tense sentence context ("...boxing is known...lead..."); and a comma after "inform" is incorrect.

QUESTION NO: 18

For $x > 0$ and $y > 0$,

$$(\sqrt{x} + \sqrt{y})(\sqrt{x} - \sqrt{y}) - (\sqrt{x} - \sqrt{y})^2 =$$

A. $-2\sqrt{x}\sqrt{y} - 2y$

B. $x - y$

C. 0

D. $-2\sqrt{x}\sqrt{y} + 2y$

E. $2\sqrt{x}\sqrt{y} - 2y$

A. Option A

B. Option B

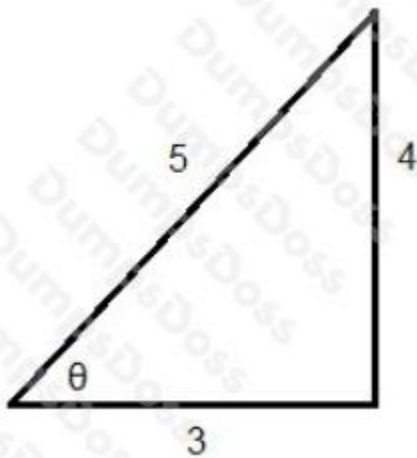
C. Option C

D. Option D

E. Option E

ANSWER: E**QUESTION NO: 19**

Find the values of the trigonometric functions of θ if θ is the angle of the pictured right triangle. (i.e. in following order: sin, cos, tan, csc, sec, cot)

A. $4/5, 3/5, 4/3, 5/4, 5/3, 3/4$ B. $4/5, 3/5, 4/3, 5/4, 5/3, 3/3$ C. $4/5, 5/5, 4/3, 5/4, 5/3, 3/4$ D. $4/5, 3/5, 4/3, 5/3, 5/3, 3/4$

E. $\frac{3}{5}$, $\frac{3}{5}$, $\frac{4}{3}$, $\frac{5}{4}$, $\frac{5}{3}$, $\frac{3}{4}$

ANSWER: A

QUESTION NO: 20

In New Orleans, Moon Walk – a pathway along a stretch of the Mississippi – now provides the public access that had previously been denied. It's a charming place, where one night recently a band played on the walk as tourists and residents of the adjacent Vieux Carre (the Old Quarter or French Quarter) strolled past. A few feet west, the paddlewheeler Natchez sounded its whistle, signaling its imminent departure.

Now the city plans to extend public access to the area adjoining Moon Walk in an ambitious design that will, the city hopes, be a part of its development for the next world's fair. This more ambitious concept for the waterfront will be likely to stir considerable debate as competing projects vie for the opportunities for profit. The development will therefore require substantial participation, cooperation and scrutiny by citizens to make sure that while private profitability is maintained, the public's needs are satisfied, too.

The joint efforts of environmentalists, business-people, civic leaders and politicians have transformed abandoned, derelict port landscapes in cities throughout America into exciting commercial and recreational centers. Examples are the Cannery in San Francisco, the Riverfront Walk in San Antonio, Faneuil Hall Market in Boston and Harborplace in Baltimore.

It's easy to understand why the port areas were neglected. While many cities were growing up along rivers, lakes and natural harbors, depending on water-borne commerce, waterfronts thrived. After World War II, however, technological changes in transportation – improved planes and airports, the interstate highway system, larger tracks for freight trains and containerized shipping – rendered many old port facilities obsolete.

Waterfront areas became peripheral to the life of the city. Piers were abandoned, and the waterfronts lay idle in many older cities, paralleling the more general urban decay.

With the 1970's came a period of reflection on this condition and a resurgence of urban pride. Urban renewal stopped being a license for large-scale demolition; politicians and planners took a hard look at their available resources and began to experiment with new development techniques. Waterfronts became one focus of the large urban revitalization effort.

As used in the passage, rendered means

- A. delivered.
- B. made.
- C. restored.
- D. surrendered.

ANSWER: B