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QUESTION 1

$$\int_{\pi}^{2\pi} \sin x \, dx =$$

- A. $2 \int_0^{\pi/2} \cos x \, dx$
- B. $\int_{\pi}^{2\pi} \cos x \, dx$
- C. $-2 \int_0^{\pi/2} \cos x \, dx$
- D. $\int_0^{\pi} \cos x \, dx$

=

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: C

QUESTION 2

Since 1997, the American Heart Association (AHA) has attempted to increase awareness about cardiovascular disease (CVD) among women. Fortunately, great progress has been made to educate individuals about CVD and its consequences. According to the AHA's 2011 Guidelines for Prevention of Cardiovascular Disease in Women, the misconception that CVD is a "man's disease" has been somewhat disproved, as awareness among the general public increased from 30% in 1997 to 54% in 2009. Unfortunately, CVD continues to be the leading cause of death in the United States for both men and women. Since 1984, the number of deaths related to CVD in women exceeded those in men. In the United States, CVD death rates among women aged 35 to 54 years appear to be increasing by 1% annually, which is most likely attributable to the escalating obesity epidemic. According to the AHA, even though CVD is the number 1 cause of death among women, only 13% of women perceive CVD as a health threat. CVD is responsible for more deaths among women than the next 3 leading causes of death combined, including all forms of cancer. Due to the ongoing prevalence of CVD, increasing awareness and understanding of CVD, especially among the female population, is still a top priority for many health care professionals. As one of the most accessible health care professionals, pharmacists are in a pivotal position to educate and inform their patients of the risks associated with CVD, possible drug therapies, and preventive measures. The AHA has set a goal for 2020 to improve cardiovascular health in all Americans by 20%, while reducing deaths from CVD and stroke by 20%. According to the American Heart Association, in the United States a woman dies of some form of CVD every minute and more than 1 in 3 females have some form of CVD. Studies have demonstrated that gender differences may play an important role in the diagnosis, treatment, and prevention of CVD. Unfortunately, many women may not always recognize the warning signs and symptoms of a heart attack because they sometimes appear more subtle when compared with those typically experienced by men. Results from a study of 515 women who had heart attacks report that 43% did not experience any type of chest pain or pressure during the heart attack. Although the classic symptoms include chest pain, tingling in the

left arm, sweating, and shortness of breath, women may also experience some "atypical" symptoms, such as extreme fatigue, nausea, dizziness, indigestion, vomiting, and pain in the neck or back. By learning and recognizing the warning signs, women can take a proactive approach to their cardiovascular health and get treatment earlier to prevent further complications.

Which of the following is NOT a symptom most men experience during a heart attack?

- A. perspiration
- B. chest pain
- C. left arm tingling
- D. nausea

Correct Answer: D

The final paragraph of the passage described the "classic symptoms" including "chest pain, tingling in the left arm, sweating, and shortness of breath," and then goes on to describe "some `atypical\\' symptoms, such as extreme fatigue, nausea, dizziness, indigestion, vomiting, and pain in the neck or back," which usually occur only in women.

QUESTION 3

When a population reaches its carrying capacity?

- A. The population size begins to decrease.
- B. The population growth rate approaches zero.
- C. Other populations will be forced out of the habitat.
- D. Density-independent factors no longer play a role.
- E. Density-dependent factors no longer play a role.

Correct Answer: B

Within a habitat, there is a maximum number of individuals that can continue to thrive, known as the habitat\\'s carrying capacity. When the population size approaches this number, population growth will stop.

QUESTION 4

What fractional part of an hour is 400 seconds?

- A. $\frac{1}{5}$
- B. $\frac{1}{6}$
- C. $\frac{1}{7}$
- D. $\frac{1}{9}$

Correct Answer: D

Each hour has 60 minutes, and each of those minutes has 60 seconds. Expressed in seconds, then, an hour is $60 \times 60 = 3600$.

$400 / 3600 = 1/9$.

QUESTION 5

Bile mainly helps in the digestion of:

- A. Fats
- B. Proteins
- C. Carbohydrates
- D. Bile pigments

Correct Answer: A

Bile (or gall) is a bitter, greenish-yellow alkaline fluid secreted by the liver of most vertebrates. It helps in the complete digestion of fats by reducing surface tension. It also activates the enzyme lipase. It serves as a good solvent for fats and fat-splitting enzymes. Bile also helps in absorption of carbohydrates, fats, fat soluble vitamins and proteins.

QUESTION 6

Since 1997, the American Heart Association (AHA) has attempted to increase awareness about cardiovascular disease (CVD) among women. Fortunately, great progress has been made to educate individuals about CVD and its consequences. According to the AHA's 2011 Guidelines for Prevention of Cardiovascular Disease in Women, the misconception that CVD is a "man's disease" has been somewhat disproved, as awareness among the general public increased from 30% in 1997 to 54% in 2009. Unfortunately, CVD continues to be the leading cause of death in the United States for both men and women. Since 1984, the number of deaths related to CVD in women exceeded those in men. In the United States, CVD death rates among women aged 35 to 54 years appear to be increasing by 1% annually, which is most likely attributable to the escalating obesity epidemic. According to the AHA, even though CVD is the number 1 cause of death among women, only 13% of women perceive CVD as a health threat. CVD is responsible for more deaths among women than the next 3 leading causes of death combined, including all forms of cancer. Due to the ongoing prevalence of CVD, increasing awareness and understanding of CVD, especially among the female population, is still a top priority for many health care professionals. As one of the most accessible health care professionals, pharmacists are in a pivotal position to educate and inform their patients of the risks associated with CVD, possible drug therapies, and preventive measures. The AHA has set a goal for 2020 to improve cardiovascular health in all Americans by 20%, while reducing deaths from CVD and stroke by 20%. According to the American Heart Association, in the United States a woman dies of some form of CVD every minute and more than 1 in 3 females have some form of CVD. Studies have demonstrated that gender differences may play an important role in the diagnosis, treatment, and prevention of CVD. Unfortunately, many women may not always recognize the warning signs and symptoms of a heart attack because they sometimes appear more subtle when compared with those typically experienced by men. Results from a study of 515 women who had heart attacks report that 43% did not experience any type of chest pain or pressure during the heart attack. Although the classic symptoms include chest pain, tingling in the left arm, sweating, and shortness of breath, women may also experience some "atypical" symptoms, such as extreme fatigue, nausea, dizziness, indigestion, vomiting, and pain in the neck or back. By learning and recognizing the warning signs, women can take a proactive approach to their cardiovascular health and get treatment earlier to prevent further complications.

In context, the word "pivotal" in paragraph 3 most nearly means

- A. determining
- B. crucial
- C. important
- D. central

Correct Answer: D

The author describes pharmacists as being in a pivotal position to educate and inform patients of the risks associated with CVD due to their accessibility. While pharmacists are certainly important in transmitting this information, because of their accessibility, they are crucial, or central, to raising awareness of CVD.

QUESTION 7

A virus contains all of the following except?

- A. mitochondria
- B. RNA
- C. amino acids
- D. DNA

Correct Answer: A

A virus is neither eukaryotic nor prokaryotic, but similar to prokaryotes, viruses lack organelles. They are composed primarily of nucleic acids, DNA and RNA, and proteins. Viruses lack mitochondria.

QUESTION 8

The primary seat of tubercular infection is generally in the upper part of the lung. The invading organisms settle on the surface here and cause a multiplication of the cells and an inflammatory exudate in a small area. With the continuous growth of the bacilli in the localized region, adjoining areas of the lung become affected, and there is further extension into the immediate vicinity by means of the lymphatics. Small nodules form and then coalesce to create a larger area. The body primarily defends itself with the formation of dense masses of cicatricial tissue, which function to wall off the affected area. This results in unfavorable growth conditions for the bacilli. This mode of defense, combined with the production of substances antagonistic to the toxins produced by the bacilli, is so efficacious that in the great majority of cases no further extension of the process takes place. In certain cases, however, the growth of the bacilli in the focus area is unchecked, then the surrounding tissue is killed and converted into a soft semi-fluid material; further extension then takes place. All parts of the enormous surface of the lungs are connected by a system of air tubes or bronchi, and as a result, the bacilli have favorable opportunity for distribution. This opportunity is facilitated by sudden movements of the air currents in the lung produced by coughing. The body's defense; however, can still keep pace with the attack, and even in an advanced stage, the infection can sometimes be permanently checked; in other cases, the check is temporary, the process of softening continues, and large cavities are produced by the destruction of the tissue. On the inner surface of these cavities there may be a rapid growth of bacilli. From the lungs, the bacilli are carried by the lymphatics to the lymph nodes at the root of the lungs, in which a similar process takes place; this, on the whole, is favorable, because further extension by this route is for a time blocked. The extension across surfaces continues and the abundant sputum, which is formed in the lungs and contains large numbers of bacilli, becomes the vehicle of transportation. The windpipe and larynx may become infected, as the back parts of each are more closely in contact with the sputum and are the parts most generally infected. A large part of the sputum is swallowed and infection of the

intestine takes place with the lesions taking the form of large ulcers. From the intestinal ulcers there is further extension by means of the lymphatics to the large lymph nodes in the back of the abdominal cavity.

According to the passage, which of the following is true about tubercular infection?

- A. It can be stopped in the lungs, but not once it attacks the rest of the body.
- B. It can always be stopped before fatality.
- C. It can be checked until it reaches the intestines, but not after.
- D. It can sometimes be checked in an advanced stage, but not always.

Correct Answer: D

The end of the first paragraph states, "The body's defense; however, can still keep pace with the attack, and even in an advanced stage, the infection can sometimes be permanently checked; in other cases the check is temporary..." Accordingly, the infection can be stopped, even in an advanced stage, but this is not always the case.

QUESTION 9

Stefan's scores on his English essays were 75, 65, 80, 95, and 65. What is the average of his test scores?

- A. 66
- B. 71
- C. 65
- D. 76

Correct Answer: D

$(75 + 65 + 80 + 95 + 65) / 5 = 76.$

QUESTION 10

Which of the following will result if there is a drop-in blood pressure?

- A. formation of glucose
- B. secretion of insulin
- C. secretion of EPO
- D. secretion of ANP

Correct Answer: C

A drop-in blood pressure causes the renal cortex of the kidney to secrete EPO (erythropoietin) in an effort to increase the blood pressure by increasing the synthesis of red blood cells. EPO is a necessary precursor for red blood cell production to take place.

QUESTION 11

Human predation has caused the population of cheetahs to decline dramatically. Changes in allele frequencies in the remaining population of cheetahs would most likely be due to:

- A. Natural selection
- B. Gene flow
- C. The founder effect
- D. The bottleneck effect
- E. Mutation

Correct Answer: D

The bottleneck effect occurs when populations undergo a dramatic decrease in size. It could be due to natural or artificial causes.

QUESTION 12

What is the role of a nurse cell?

- A. secrete testosterone
- B. secrete sperm
- C. nurture maturing red blood cells
- D. activate sperm motility

Correct Answer: C

Nurse cells aid in the maturation of red blood cells. They are macrophages that absorb immature red blood cells and facilitate the growth of red blood cells.

QUESTION 13

Which is not a function of immunoglobins?

- A. coagulation
- B. assist in phagocytosis
- C. attack pathogens
- D. labeling of pathogens

Correct Answer: C

Antibodies or immunoglobins perform all of the functions except for directly attacking pathogens. Leukocytes, or white blood cells, are responsible for attacking pathogens.

QUESTION 14

On a bad day, have you ever been irritable? Have you ever used a harsh tone or even been verbally disrespectful to your parents or teachers? Everyone has a short temper from time to time, but current statistics indicate that between 16% and 20% of a school population suffer from a psychological condition known as Oppositional Defiance Disorder, or ODD.

ODD symptoms include difficulty complying with adult requests, excessive arguments with adults, temper tantrums, difficulty accepting responsibility for actions, low frustration tolerance, and behaviors intended to annoy or upset adults. Parents of children with ODD can often feel as though their whole relationship is based on conflict after conflict.

Unfortunately, ODD can be caused by a number of factors. Some students affected by ODD suffer abuse, neglect, and severe or unpredictable discipline at home. Others have parents with mood disorders or have experienced family violence. Various types of therapy are helpful in treating ODD, and some drugs can treat particular symptoms. However, no single cure exists.

The best advice from professionals is directed toward parents. Therapists encourage parents to avoid situations that usually end in power struggles, to try not to feed into oppositional behavior by reacting emotionally, to praise positive behaviors, and to discourage negative behaviors with timeouts instead of harsh discipline.

Which of the following best describes the main idea of this passage?

- A. Parents with ODD should seek support.
- B. ODD is a complex condition.
- C. ODD has no cause.
- D. Parents are the cause of ODD.

Correct Answer: B

QUESTION 15

Which of the following would show a peak at 2190 cm^{-1} ?

- A. alkane
- B. alkene
- C. alkyne
- D. ketone

Correct Answer: C

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