

**Section 1: English****20 questions, 20 Marks**

Read the passage and answer the following questions

Spiders are not insects! They are actually arachnids - invertebrates (animals without backbones) that have eight legs and which inject venom. Spiders are found on every continent except Antarctica. There are over 44,000 known kinds of spiders. Spiders are found in every kind of habitat and are often found in homes!

Spiders are unique among animals in that many spin webs out of silk. The webs trap insects and other prey to be eaten later. Larger spiders, such as wolf spiders, huntsman, and tarantulas attack prey rather than spin webs. One spider that was recently discovered even flings itself at prey like a slingshot! Most spiders eat insects, but tarantulas and larger spiders will eat small lizards and mammals as well.

Many people fear spiders. In fact, a fear of spiders has its own name: Arachnophobia! Most spiders, however, are totally harmless to humans and are actually beneficial because they eat insect pests. Even the largest tarantula in existence, the Goliath Bird-eating Tarantula is harmless to humans. A tarantula bite is said to be about as painful as a bee sting. Some spiders, however, such as the Black Widow Spider, are dangerous to humans. Bites from these spiders usually require immediate medical attention.

1. Which of the following statements best describe spiders?
A. Most are harmful to humans. B. None are harmful to humans.
C. All are harmful to humans D. Most are not harmful to humans
2. Where are spiders NOT found?
A. Antarctica B. Deserts C. Cold climate D. Homes
3. What would be the best title for the third paragraph?
A. Diet of spiders B. Spider bites C. Spider webs D. Habitats of spiders
4. Which is NOT true about spiders?
A. All spin webs B. They inject venom
C. Some eat lizards and small mammals D. They have eight legs
5. Which of the following questions is NOT answered in the passage?
A. How large is the largest spider in the world? B. What is the largest tarantula in existence?
C. Is the Black Widow Spider harmful to humans? D. How painful is a tarantula bite?

Select the best option that should replace the underlined portion

6. He is too important for tolerating any delay.
A. to tolerate B. to tolerating C. at tolerating D. with tolerating
7. The population of Tokyo is greater than that of any other town in the world.
A. greater than any other B. greater than most other
C. greater than those of any other D. No correction required
8. You need not come unless you want to.
A. You don't need to come unless you want to B. You come only when you want to
C. You come unless you don't want to D. You needn't come until you don't want to
9. The man to who I sold my house was a cheat.





- A. to whom I sell B. to who I sell C. who was sold to D. to whom I sold
10. They were all shocked at his failure in the competition.
A. were shocked at all B. had all shocked at C. had all shocked by D. No correction required

Find the **antonym** from the given options

11. Zealous
A. Enthusiasm B. Fallacy C. Indifferent D. Aggressive
12. Enhance
A. Reduce B. Expansion C. Tangible D. Heavy
13. Credible
A. Genius B. Gullible C. Ridiculous D. Ponder
14. Brief
A. Limited B. Lucid C. Narrate D. Elaborate
15. Taciturn
A. Cheerful B. Composed C. Talkative D. Tangent

Choose the correct answer

16. Our sun, in many ways an average sort of star, has been around for nearly five billion years and has enough fuel to _____ going for another five billion years.
A. continue B. carry C. maintain D. keep
17. The most important factors in determining a person's risk of developing heart disease _____ body weight and the type of fat he or she consumes.
A. is B. measurement of C. through D. are
18. A trio of newly discovered worlds are much smaller _____ other planets previously discovered outside of the solar system.
A. the B. than any C. all D. most
19. The ocean provides a dependable and affordable source of _____ for many.
A. entertainment B. recreation C. pollution D. Fishing
20. Motor vehicle collision is _____ of death in infants and children.
A. primary reason B. frequently resulting C. often blamed D. a leading cause

Section 2: LOGICAL REASONING:

8 Questions, 24 Marks

1. Find the odd one out
A. fish: pisciculture B. birds: horticulture
C. bees: apiculture D. silkworm: sericulture
2. Find the odd one out
A. cow: calf B. dog: bitch C. lion: cub D. tortoise: turtle
3. Find the odd one out
A. twigs: nest B. wood: furniture C. picture: pottery D. gold: ornaments
4. Find the odd one out
A. beans: pulse B. rice: cereals C. tea : beverage D. legumes : nodules
5. Find the odd one out
A. microscope B. telescope C. periscope D. stethoscope

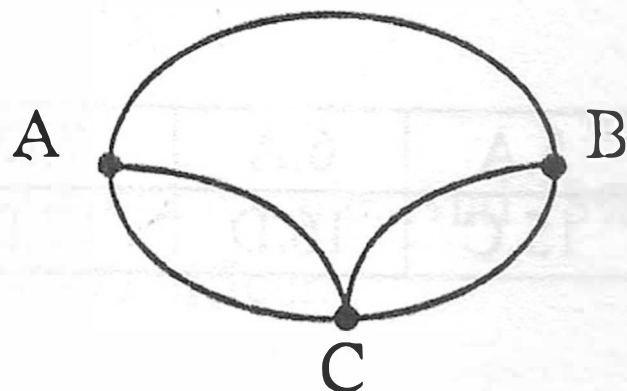




6. Find the odd one out
A. Fish : Shoal B. Cow : Herd C. Sheep : Flock D. Man : Mob
7. Find the odd one out
A. Stamp : Letter B. Ticket : Train C. Ink : Pen D. Care : Engine
8. If banana is apple, apple is grapes, grapes is mango, mango is nuts, nuts is guava, which of the following is a yellow fruit?
A. Mango B. Guava C. Apple D. Nuts

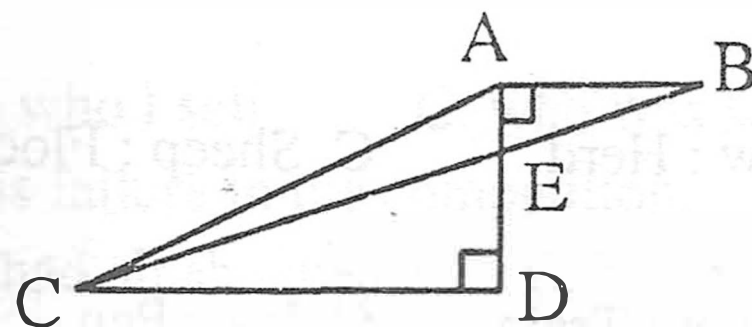
MATHEMATICS:**15 Questions, 30 Marks**

1. Of the following, which is greater than $\frac{1}{2}$?
A. $\frac{2}{5}$ B. $\frac{4}{7}$ C. $\frac{4}{9}$ D. $\frac{5}{11}$ E. $\frac{6}{13}$
2. If an object travels at five feet per second, how many feet does it travel in one hour?
A. 30 B. 300 C. 720 D. 1800 E. 18000
3. What is the average (arithmetic mean) of all the multiples of ten from 10 to 190 inclusive?
A. 90 B. 95 C. 100 D. 105 E. 110
4. A cubical block of metal weighs 6 pounds. How much will another cube of the same metal weigh if its sides are twice as long?
A. 48 B. 32 C. 24 D. 18 E. 12
5. In a class of 78 students 41 are taking French, 22 are taking German. Of the students taking French or German, 9 are taking both courses. How many students are not enrolled in either course?
A. 6 B. 15 C. 24 D. 33 E. 54
6. A straight fence is to be constructed from posts 6 inches wide and separated by lengths of chain 5 feet long. If a certain fence begins and ends with a post, which of the following could **not** be the length of the fence in feet? (12 inches = 1 foot)
A. 17 B. 28 C. 35 D. 39 E. 50
7. $(\sqrt{2} - \sqrt{3})^2 =$
A. $5 - 2\sqrt{6}$ B. $5 - \sqrt{6}$ C. $1 - 2\sqrt{6}$ D. $1 - \sqrt{2}$ E. 1
8. $2^{30} + 2^{30} + 2^{30} + 2^{30} =$
A. 8^{120} B. 8^{30} C. 2^{32} D. 2^{30} E. 2^{26}

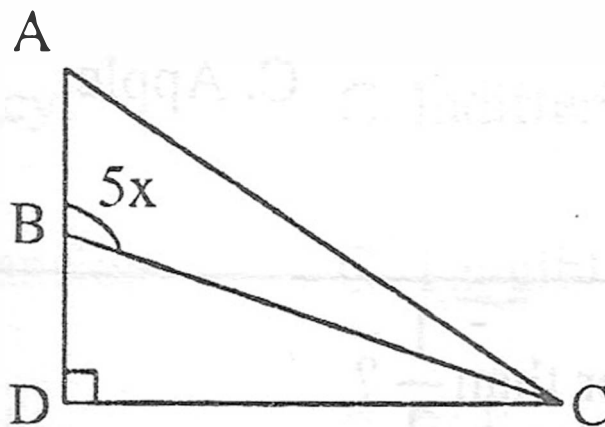


9. Amy has to visit towns B and C in any order. The roads connecting these towns with her home are shown on the diagram. How many different routes can she take starting from A and returning to A, going through both B and C (but not more than once through each) and not travelling any road twice on the same trip?
A. 10 B. 8 C. 6 D. 4 E. 2





10. In the figure above $AD = 4$, $AB = 3$ and $CD = 9$. What is the area of triangle AEC?
- A. 18 B. 13.5 C. 9 D. 4.5 E. 3



11. Which of the following could be a value of x , in the diagram above?
- A. 10 B. 20 C. 40 D. 50 E. any of the above
12. Helpers are needed to prepare for the fete. Each helper can make either 2 large cakes per hour, or 35 small cakes per hour. The kitchen is available for 3 hours and 20 large cakes and 700 small cakes are needed. How many helpers are required?
- A. 10 B. 15 C. 20 D. 25 E. 30
13. Jo's collection contains US, Indian and British stamps. If the ratio of US to Indian stamps is 5 to 2 and the ratio of Indian to British stamps is 5 to 1, what is the ratio of US to British stamps?
- A. 5 : 1 B. 10 : 5 C. 15 : 2 D. 20 : 2 E. 25 : 2
14. A 3 by 4 rectangle is inscribed in circle. What is the circumference of the circle?
- A. 2.5π B. 3π C. 5π D. 4π E. 10π
15. Two sets of 4 consecutive positive integers have exactly one integer in common. The sum of the integers in the set with greater numbers is how much greater than the sum of the integers in the other set?
- A. 4 B. 7 C. 8 D. 12 E. it cannot be determined from the information given.

ANSWERS

SECTION I: English Language

1.D	2.A	3.B	4.A	5.A	6.A	7.D	8.A	9.D	10.C
11.C	12.A	13.C	14.D	15.C	16.D	17.D	18.B	19.B	20.D

SECTION II: Logical reasoning:

1.B	2.B	3.C	4.D	5.D	6.D	7.D	8.D		
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SECTION III: Math

1.B	2.E	3.B	4.B	5.A	6.C	7.D	8.B	9.D	10.C
11.E	12.A	13.D	14.A	15.C					

