**Full name: .....................**

**TEST QUESTIONS**

**I. MULTIPLE-CHOICE SECTION (***circle on the best answer)*

**Q1.** Given and are two events of a random test. The union event of A and B, denoted by

1. .

B. .

C. .

D**.** .

**Q2.** Given and are two events of a random test. Event: " " is called

A**.** Incident of delivery.

B**.** Incidents for

C**.** Matching events

D. conflicting events

**Q3.** Given and are two events of a random test. If then and are called two

A**.** Incident of delivery.

B**.** Incidents for

C**.** Matching events

D**.** Conflict events

**Q4.** Given 2 variables A and B, if the occurrence or non-occurrence of the event A does not affect the probability of occurrence of the event B. Which of the following clauses is true?

A. and are two independent events.

B**.**  and are two non-independent events.

C**.**  and two conflicting events.

D**.**  and are two opposing events.

**Q5.** Let two events and be a subset of the sample space Element when

A. or

B. and

C. and

D. and

**Q6**. Let two events and be a subset of the sample space Element when

A. or

B. and

C. and

D. and

**Q7.**  If and are two conflicting events of a test, then equal to

A.

B.

C.

D.

**Q8.** If and are two independent events of a test, then equal to

A.

B.

C.

D.

**Q9.** Let and are two conflicting events of a satisfying random test and Then, equal to

A.

B.

C.

D.

**Q10.** Gunners A and B each fired one bullet at the target independently of each other. The probability of hitting the target of two gunners A and B is respectively 0.8 and 0.6 the probability of the event that “the two gunners hit the target together” by

A.

B.

C.

D.

**Verse 11.** The two athletes throw the ball into the basket independently of each other. Call and turn are the first and second athletes hitting the basket. Then the event is

A. Both athletes hit the basket.

B. Have at least one athlete hit the basket

C. No athlete hit the basket

D. The second athlete hits the basket

**Verse 12.** Randomly selecting a positive integer to 1 from 20. Called an event A that selects an even number,B is an event that selects a number divisible by 3 Then, the event is a selectable event

A. a number divisible by

B. some divisible by

C. a number divisible or divisible by

D. a number divisible by

**Verse 13.** Sow a balanced and homologous coin twice in a row. Called A is the "coin appears S at the first sowing" event, B it is the event "the coin appears present N at the first sowing. Calculating the probability of an event

A.

B.

C.

D.

**Verse 14.** Sow a balanced and homogeneous dice once. Called the event A is "the dice appear on the face with the number of dots divisible by 2 . B is the event "the dice appear on the face whose number of dots divisible by 5. the probability of the event is

A.

B.

C.

D.

**Verse 15.** Box A has 3 white marbles, 4 red marbles and blue marbles. Box B has 7 white marbles,6 red marbles and 3 blue marbles. Randomly taking one marble per box, the probability that the two marbles removed are the same red color as

A.

B.

C.

D.

**Verse 16.** The probability of hitting a person's red center is 0.7. Calculating the probability so that in three independent shots he or she only hits the red center on the third occasion.

**A.**

**B.**

**C.**

**D.**

**Verse 17.**  The two gunners fired one bullet at each beer independently of each other. The probability of hitting the target by the two gunners is respectively and The probability that at least one gunner does not hit the target by

**A.**

**B.**

**C.**

**D.**

**Verse 18.** The probability of hitting an athlete's target when firing one bullet is 0.6 that he or she shoots two bullets independently. The probability for one hit and one to miss the target is

**A.**

**B.**

**C.**

**D.**

**Verse 19.** An aircraft with two I and II engines operating independently of each other. The probability for engine I to run well is 0.8 and the probability for engine II to run well is 0.7. The probability for both engines to run badly is

**A.**

**B.**

**C.**

**D.**

**Verse 20.** Three people shoot at the target (beer) independently. The probability for the first, second, and third person to hit the target is  respectively and 0.8. The probability for two right person to hit the target is

**A.**

**B.**

**C.**

**D.**

**II. ESSAY SECTION**

**Lesson 1**. Random selection of a smaller positive integer Called the event A is of "picking a prime number", which is the event B is of "choosing a divisible number by 3".

1. Find an event
2. Find an event

**Lesson 2.**

1. Randomly sow a balanced and homologous dice once. It is called the event A is of " appearance of there dot face ", which is the event of "" appearance of five dot face". Calculating the Probability of an Event
2. The two gunners fired 2 rounds at a target one in turn. The probability of hitting the target of the first and second gunners is respectively 0.8 and 0.7 Know that the results of the shots are independent of each other. Calculate the probability of the event "both gunners missed the target".

**Lesson 3.** Two penalty shootout players. The probability of the first player hitting the net is 0.3 . The probability that the second player does not kick the net is 0.4 .

1. Calculate the probability for both players to kick into the net;
2. Calculate the probability to have exactly one player hit the net.

**Lesson 4.** Box A has 4 white marbles, 5 red marbles and 6 blue marbles. Box B has 7 white marbles, 6 red marbles and 5 blue marbles. Take at random one marble per box.

1. Get two marbles of the same blue color.
2. Get two marbles of the same color.

**WORK**

…………………………………………………………………………………….....…………………………………………………………………………………….....

…………………………………………………………………………………….....

…………………………………………………………………………………….....…………………………………………………………………………………….....…………………………………………………………………………………….....

…………………………………………………………………………………….....

…………………………………………………………………………………….....

…………………………………………………………………………………….....…………………………………………………………………………………….....

…………………………………………………………………………………….....

…………………………………………………………………………………….....

…………………………………………………………………………………….....…………………………………………………………………………………….....

…………………………………………………………………………………….....

…………………………………………………………………………………….....

…………………………………………………………………………………….....…………………………………………………………………………………….....

…………………………………………………………………………………….....

…………………………………………………………………………………….....

…………………………………………………………………………………….....…………………………………………………………………………………….....

…………………………………………………………………………………….....

…………………………………………………………………………………….....

…………………………………………………………………………………….....…………………………………………………………………………………….....

…………………………………………………………………………………….....

…………………………………………………………………………………….....

…………………………………………………………………………………….....…………………………………………………………………………………….....

…………………………………………………………………………………….....