



Complete the following sentences by choosing the best choice(a,b,c or d)

1."Trans" in the word "transformation" means.....

- a.under
b.in
c.forward
d.across

2.The suitable suffix for the word "develop" is.....

- a.ment
b.true
c.tion
d.ence

3.His book was so....that all of the class wants to read it.

- a. interest
b interested
c interesting
d interest ful

4.Every correct statement leads to a

- a. law
b.set
c. conclusion
d.theorem

5.The number of permutations of n objects isn!

- a. less than
b.equal to
c.greater than
d.opposite from

6.The well-ordering principle for N is logically equivalent to the.....

- a. principle of mathematical induction
b principle of extension
c. principle of the maximum
d. principle of nested intervals

7.We now apply thetheorem and conclude that there is a subsequence $\{x_{k_n}\}$ of $\{x_n\}$

which converges to some limit L.

- a.Extreme-value
b.Balzano - Weierstrass
c.Dede kind's theorem
d.Well-ordering principle for N



کُد سری سؤال: یک (۱)

حضرت علی(ع): ارزش هر کس به میزان دانایی و تخصص اوست.

زمان آزمون (دقیقه): تستی: ۹۰ تشریحی: --

تعداد سوالات: تستی: ۳۰ تشریحی: --

نام درس: زبان تخصصی

رشته تحصیلی / کُد درس: آموزش ریاضی ۱۱۱۱۲۹۰-ریاضی (کاربردی-محض) ۱۱۱۱۰۵۸-ریاضیات و کاربردها ۱۱۱۱۳۹۶-فراگیر ارشد ریاضی ۱۱۱۱۲۰۶

مجاز است.

استفاده از:

8. People form the.....of a number by multiplying the number by itself

- a.corrosion
b.integer
c.completion
d.square

9. Many years ago , Khwarizmi.....a symbol for zero.

- a.introduction
b.product
c.introduced
d.production

10. The system.....numerals used before were Roman numerals.

- a.in
b.at
c.of
d.about

11. If A and B are countably finite, then $A \times B$ is.....

- a.finite
b.uncountable
c.countable
d.countably finite

12. The set Q of all rational numbers has the interesting property of being a countably infinite set which is.....in R.

- a.dens
b.subset
c.bounded
d.open

13. Probability distributions are used to.....data.

- a. collect
b.analyze
c.distribute
d.apply

14. Teachers who are unfamiliar with these procedures may have difficulty.....evaluating their students.

- a.in
b.for
d.from
d.of

15. Biruni and Omar Khayyam have made a permanent.....to the study of mathematics

- a. introduction
b.production
c.contribution
d.creation



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مجاز است.

استفاده از:

16.....worked on Jalali Solar Calendar

- a.Biruni
b.Khayyam
c.Khwarizimi
d.Archimedes

17.Another.....that is used instead of $f'(x)$ is $D_x(f(x))$

- a.function
b.Interval
c.derivative
d.symbol

18.Every ellipse has two axis, one vertical and one.....

- a.horizontal
b.interval
c.special
d.natural

19.The telescope was invented to allow man to look atobjects.

- a.accurate
b.faraway
c.extensive
d.long

20.Early man used his fingers and his toes and the first counting.....

- a.aim
b.aid
c.air
d.ail

21.The side opposite the, right angle is called

- a. hypotenuse
b. leg
c. convex
d. side

22. What is the name of a triangle with all sides equal?

- a. equilateral
b. parallelogram
c. isosceles triangle
d. vertice

23. In any group a/anelement has an inverse.

- a. non – zero
b. set of
c. zero
d. arbitrary



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مجاز است.

استفاده از:

24. which one of the following is the Law of trichotomy?

- a. For every pair $m, n \in \mathbb{N}$, exactly one of $m = n, m < n$ or $n < m$ holds.
- b. For every pair $m, n \in \mathbb{N}$, if $m \leq n$ and $n \leq m$, then $m = n$.
- c. For every pair $m, n \in \mathbb{N}$, exactly one of $m < n$ or $n < m$ holds.
- d. For every pair $m, n \in \mathbb{N}$, if $m + n = 0$ then $m = 0$ or $n = 0$

25. The sequence of positive integers contains.....many primes.

- a. more
b. many
c. finitely
d. infinitely

26. Any statement without proof is named as a / an

- a. theorem
b. corollary
c. proposition
d. axiom

27. Which one of the following sets is a countable set?

- a. The set of real numbers
b. The Cartesian product of a finite set to a countable set.
c. Every interval
d. The set of complex numbers

28. proof..... V is finite – dimensional ,.....a finite spanning sequence e_1, \dots, e_n .

- a. The / then
b. Since / there is
c. Since / then
d. The / there is

29. The method of finding a function whose derivative is the function we wish to integrate , is called.....

- a. integration
b. deribation
c. deferentiation
d. anti-defferentiation

30. Any point of the interval $[a, b]$, other than a and b , is called a/ an.....point.

- a. exterior
b. accumulation
c. isolated
d. interior