

تعداد سؤال: نسی ۲۰ تکمیلی - تشریحی ۵

نام درس: زبان تخصصی

رشته تحصیلی: گرایش: ریاضی

کد درس: ۲۴۱۳۵۳

زمان امتحان: تئوری و تکمیلی ۴۰ دقیقه تشریحی ۶۰ دقیقه

[استفاده از ماشین حساب مجاز نیست ☆ سوالات تئوری نمره منفی دارد]

تعداد کل صفحات: ۳

نیمسال دوم ۸۲-۸۳

- Derivative is usually studied in
 - topology
 - algebra
 - analysis
 - geometry
- To compute a definite integral we may first compute the
 - derivative
 - antiderivative
 - limit point
 - logarithm
- Each corner point in the honeycomb is surrounded by exactly 3and there is no space wasted between cells.
 - plans
 - lines
 - hexagons
 - pentagons
- The Greeks knew thatin prespective may appear to be curved.
 - straight lines
 - triangles
 - circles
 - curved lines
- As a wheel rolls along a straight line, a point on its rim follows a path called a
 - circle
 - cycloid
 - ellipsoid
 - cardioid
- A great French mathematician named Pascal later studied the cycloid as a result of suffering form a
 - square
 - cub
 - toothache
 - parabola
- The following property of natural numbers is called:

$$p.(m + n)=(p. m) +(p .n)$$
 - the commutative law
 - the distributive law
 - the cancellation law
 - induction
- The number of permutations of n objects isn!.
 - less than
 - equal to
 - greater than
 - opposite from
- The law of trichotomy is not valid for
 - natural numbers
 - rational numbers
 - complex numbers
 - integers
- A statement which is not proved to be true or false is a
 - theorem
 - conjecture
 - assumption
 - relation
- A synonym for supremum is:
 - least upper bound
 - greatest lower bound
 - least square
 - maximum

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نیمسال دوم ۸۲-۸۳

12. The well ordering principle for \mathbb{N} states that:
- every empty subset of \mathbb{N} has a first element
 - every subset of \mathbb{N} has a first element.
 - every non empty subset of \mathbb{N} has a maximum.
 - every non empty subset of \mathbb{N} has a first element.
13. Omar Khayyam's work onwas translated into French by P. Woepcke in 1851.
- geometry
 - Jalali solar calendar
 - poetry
 - algebra
14. Completeness is the deficiency in the system of:
- real numbers
 - complex numbers
 - rational numbers
 - natural numbers
15. Every non empty set of real numbers which is bounded above has a:
- maximun
 - minimum
 - least upper bound
 - greatest common divisor
16. The set \mathbb{Q} of all rational numbers has the interesting property of being a countably infinite set which isin \mathbb{R} .
- subset
 - bounded
 - dense
 - open
17. Most people are familiar with the term statistics as it is used to denote and record facts and figures.
- mathe matical
 - numerical
 - natural
 - real
18. If f is not given explicitly the process by which $f'(n)$ is computed is called differentiation.
- implicit
 - explicit
 - simple
 - function
19. F is calledif it is both left and right continuous.
- differentiable
 - continuous
 - increasing
 - decreasing

