

زمان آزمون (دقیقه): نشتی: ۸۰ تشریحی: --

تعداد سوالات: نشتی: ۳۵ تشریحی: --

نام درس: زبان تخصصی شیمی

رشته تحصیلی / کُد درس: شیمی (محض-کاربردی) ۱۱۱۴۰۲۸-فراگیر ارشد شیمی ۱۲۱۲۱۸۰

مجاز است.

استفاده از: --

A. Choose the best choice (a, b, c or d. in order to complete the following sentences.)

1. Chemistry gives all of us the..... to become magicians with matter and to make forms of matter that have never existed before and perhaps do not exist anywhere else in the universe.

- a. stimulus b. violence c. opportunity d. response

2. With improved transport and greater output from came more extensive trade, and the world became simultaneously a smaller but busier place.

- a. partitions b. factories c. proportions d. fluids

3. These measurements are usually made on small samples of matter, or pieces of the material we want to study.

- a. explosive b. representative c. intensive d. corrosive

4. Dalton's..... was a monumental insight that helped others understand the world in a new way.

- a. hypothesis b. circumstance c. discovery d. assumption

5. One of the characteristics of science that you will meet quite often is that it takes common words from our everyday language and gives them a meaning.

- a. Magic b. cosmic c. dense d. precise

6. Chemists between "physical" properties and chemical properties.

- a. distinguish b. filtrate c. propagate d. secure

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7. The density of a substance is of the size of the sample because doubling the volume also doubles the mass, so the ratio of mass to volume remains the same.

- a. performance b. moderate c. suspect d. independent

8. The potential energy is taken to be 0 when the two particles are far apart.

- a. temporary b. infinitely c. momentary d. internally

9. There are actually more than one hundred elements which in various combinations all matters on the Earth.

- a. deal with b. consistent with c. grow d. make up

10. In a chemical reaction, atoms are neither created nor destroyed but partners to produce new substance.

- a. conceal b. emerge c. exchange d. dissolve

11. Later workers, most notably the American physicist Robert Millikan ,..... experiments that enabled them to determine the charge of the electron.

- a. extract b. initiate c. foster d. carried out

12. If atoms were indeed like blobs in a positively charged jelly, then all the α would easily pass through the foil

- a. processes b. neutrals c. particles d. releases

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13. Which case is false?

- a. Isotopes of the same element have essentially the same chemical and physical properties.
 b. A plot of the detector signal against the magnetic field is mass spectrum.
 c. The vertical columns of periodic table are called periods and are numbered from top to down.
 d. The diameter of nucleolus is only about one hundred thousandth that of the atom.

14. conducts electricity, has a luster and is malleable and ductile.

- a. A nonmetal b. A metal c. Metalloide d. Any substance

15. Chemists have discovered that when the elements are in order of their atomic number and

arranged in rows of certain lengths they form families that show regular trends in properties.

- a. listed b. belonged c. detected d. inspected

16. The Group 2 metals..... many properties with the Group I metals, but their reactions are less vigorous.

- a. take place b. revise c. infer d. share

17. Boyle took a long tube of glass curved into a J-shape; with the short end

- a. protected b. spoiled c. sealed d. mingled

18. This relation in turn tells us that the isotherm is in fact a, the name given to a graph of y against x when x and y are related by $xy = \text{constant}$.

- a. hyperbola b. homogenous c. smooth d. grid

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استفاده از:

19. We need to the ideas we have been describing to include the properties of mixture of gases.

- a. overthrow b. extend c. interpret d. experience

20. When you dip your finger into a liquid, your finger the molecules of the liquid and push them aside

- a. attracts b. repels c. relies d. releases

21. A chemist may need to a pollutant, administer a dosage, or transfer a known amount of a solute.

- a. monitor b. blend c. conceal d. embark

22. The molecules of sugar are and mixed so thoroughly and uniformly with water that no separate regions or particles can be seen.

- a. adapted b. confined c. confirmed d. dispersed

23. Usually the component of the solution present in larger amount (water in these examples) is called the

- a. solvent b. solute c. solvation d. substance

24. One of the simplest separation techniques,....., makes use of differences in density.

- a. filtration b. distillation c. decanting d. adsorption

25. There is such a tiny of ions in pure water (about 10^{-7} M) that water alone does not conduct electricity.

- a. contaminate b. dissociation c. abbreviation d. concentration

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26. Each ion has a number of water molecules closely associated with it. We say that each ion is

- a. hydrated b. hydration c. hydrate d. hydrative

27. In a reaction, an insoluble solid product is formed when two strong electrolyte solutions are mixed.

- a. termination b. initiation c. precipitation d. redox

28. Many common reactions, like combustion, corrosion, photosynthesis, the metabolism of food, and the of metals from their ores look completely different superficially

- a. migration b. extraction c. transition d. instrument

29. The of elements other than carbon and hydrogen into organic compounds increases their diversity enormously.

- a. inclusion b. include c. exclude d. exclusion

30. Many organic molecules are very, so we need a simple way to represent their structures..

- a. Subordinated b. meticulously c. implicated d. complicated

31. which one dose mean or equivalent to Perfect?

- a. Entire b. Ideal
c. Occurring frequently d. Remove

32. which one dose mean or equivalent to Vigorous?

- a. Fundamental b. In spite of c. Create d. Strong

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33. which one dose mean or equivalent to Cease?

- a. Stop b. Improve c. Simulate d. Inhale

34. which one dose mean or equivalent to Accurate?

- a. Depend on b. Take away c. Resemble d. Correct in all details

35. which one dose mean or equivalent to Dominate?

- a. Reduce b. Separate c. Influence over d. Complicate

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