

Sample Test Paper (DUET)

CATEGORY ONE (For candidates having 12 years education)					
Test Type	Number of Questions				
1. Having 12 years / equal	English	Physics	Chemistry / Com Sci	Math's	Total
Education in Pre-Engineering Group	25	25	25	25	100

ENGLISH

Complete the sentences by choosing the most appropriate word, from the given lettered choices (A to D) each.

1 Earthquakes cause vibrations to pass _____ around the earth in wave form.

- A. through
- B. through the
- C. through an
- D. through and

Each question below consists of a related pair of words, followed by five lettered pairs of words. Select the letter that best expresses a relationship similar to that expressed in the original pair.

2 MAN: ROBOT::

- A. original: counterfeit
- B. true: sham
- C. brain: computer
- D. object: image

Choose the lettered word or phrase that is most nearly opposite in meaning to the word in capital letters.

3. COVETOUS:

- A. Greedy
- B. sympathetic
- C. generous
- D. niggardly

Choose the word most similar in meaning to the capitalized ones.

4. BATTERY:

- A. ambush
- B. corner
- C. precarious
- D. group
- E. delirium

Read the passage to answer question 5-8

Since the 1980s, the biggest influence on business has been electronic technology.

Computers are being used for inventory control, sales analysis and forecasting, distribution control, and budget analysis. At-home electronic shopping is becoming commonplace. With this system, consumers view merchandise on a computer monitor and then use a modern, which links the computer to a telephone line, to signal the goods want to order. Just as traveling salesman once brought wares to the home, electronic technology makes it possible for modern consumers to see and select from any array of goods in their homes.

1. The word "forecasting" is closest in meaning to
 - A. prediction
 - B. efficiency
 - C. accounting
 - D. decision making
2. The word "modem" refers to a type of
 - A. electronic shopping
 - B. electronic device
 - C. telephone
 - D. computer screen
3. The word "wares" is closest in meaning to
 - A. clothing
 - B. items for sale
 - C. messages
 - D. household appliances
4. The word "array" is closest in meaning to
 - A. pair
 - B. container
 - C. category
 - D. collection

CHEMISTRY

5. At STP, which element has definite shape and volume?
 - A. Ag
 - B. Hg
 - C. Ne
 - D. Xe
10. As sodium phosphate dissolves in 100 milliliters of pure water, the pH of the resulting solution:
 - A. decreases
 - B. increases
 - C. remains the same
 - D. can not be determined from the given information
11. An atom of an element contains 20 protons 20 neutrons and 20 electrons, The element is:
 - A. an alkali metal
 - B. an alkaline earth metal
 - C. a halogen
 - D. a noble gas

PHYSICS

12. A boy walks 2 meters north, 4 meters west, and 2 meters south. His final displacement is!
 - A. 4 m east
 - B. 4 m west
 - C. 2 m north
 - D. 2 m south
 - E. 5 m northwest

13. A rock is dropped from a high bridge. At the end of 3 seconds of free fall the speed of the rock is (in centimeters per second)
- A. 30
 - B. 100
 - C. 300
 - D. 1,000
 - E. 3,000
14. The term Brownian movement refers to:
- A. irregular motions of small particles suspended in a fluid
 - B. convection currents in a liquid or gas
 - C. convection currents in a gas but not in a liquid
 - D. the stretching of a body beyond its elastic limit
 - E. the sinking of mercury in capillary tubes

MATHEMATICS

15. If two rows in a square matrix are identical, the value of the determinant of that matrix is _____.
- A. Not possible
 - B. Zero
 - C. Positive
 - D. Negative
16. $\int \frac{1}{x} dx =$ _____.
- A. $x^2 + C$
 - B. $x^0 + C$
 - C. $0 + C$
 - D. $\ln x + C$
17. If slopes of the two lines are equal, then lines must be _____
- A. Parallel
 - B. Perpendicular
 - C. Intersecting
 - D. Not parallel

COMPUTER SCIENCE

18. The essential software of computer is:
- A. package:
 - B. application software
 - C. operating system
 - D. none of the above
19. Relational database is previewed by user as:
- A. a collection of tables
 - B. a collection of attributes
 - C. a collection of rows and columns
 - D. a collection of rows only
- 20. Pointer variables are used for storing:**
- A. Data values
 - B. Address of another variable
 - C. Both data values and address
 - D. None of the above