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عنوان مواد امتحانی، تعداد و شماره سؤالات

ردیف	مواد امتحانی	تعداد سؤال	از شماره	تا شماره
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بهمن ماه سال ۱۳۸۷

استفاده از ماشین حساب مجاز نمی‌باشد.

PART A: Vocabulary

Directions: Choose the word or phrase (1), (2), (3), or (4) that best completes each sentence. Then mark the correct choice on your answer sheet.

- 1- It is not possible for human beings to ----- precisely the time of death.
1) elicit 2) enumerate 3) invoke 4) pinpoint
- 2- Educational standards are ----- year by year because of a lack of funds.
1) preceding 2) overlapping 3) degenerating 4) restricting
- 3- Your success is a ----- to all your hard work.
1) testimony 2) partnership 3) requisite 4) compliment
- 4- Statistical ----- can make it difficult to compare data from one year to the next.
1) versions 2) anomalies 3) simulations 4) proportions
- 5- These chemicals are ----- to the environment.
1) exhaustive 2) contrastive 3) detrimental 4) forthcoming
- 6- After doing this project, we will ----- a new project later this year.
1) bear on 2) break up 3) stand out 4) embark on
- 7- The soil in this part of the world is not rich enough to ----- a large population.
1) survive 2) sustain 3) suspend 4) submit
- 8- He felt that graduating from the university was a real ----- in his life.
1) enormity 2) milestone 3) coherence 4) orientation
- 9- They purchased a(n) ----- of 3,000 shares in the company.
1) welfare 2) revenue 3) aggregate 4) quantification
- 10- Do you think that these higher-than-average temperatures are ----- to global warming?
1) attributable 2) expansive 3) convertible 4) substitutional

PART B: Grammar

Directions: Read the following passage and decide which choice (1), (2), (3), or (4) best fits each space. Then mark the correct choice on your answer sheet.

Are some people born clever and others born stupid? Or is intelligence developed by our environment and our experience? (11) -----, the answer to both of these questions is yes. To some extent, our intelligence is given us at birth, and (12) ----- special education can make a genius (13) ----- a child born with low intelligence. On the other hand, a child who lives in a boring environment will develop his intelligence (14) ----- one who lives in rich and varied surroundings. Thus, the limits of a person's intelligence are fixed at birth, but (15) ----- he reaches those limits will depend on his environment. This view, now held by most experts, can be supported in a number of ways.

- | | | | |
|---------------------|------------------|--------------------------|---------------------------|
| 11- 1) Too strange | 2) Too strangely | 3) Strangely enough | 4) Strange enough |
| 12- 1) no amount of | 2) amount of no | 3) there is amount of no | 4) there is not amount of |
| 13- 1) to be | 2) out of | 3) of | 4) in order to be |
| 14- 1) if | 2) so that | 3) rather than | 4) less than |
| 15- 1) whether | 2) what | 3) how long | 4) as soon as |

PART C: Reading Comprehension

Directions: Read the following three passages and choose the best choice (1), (2), (3), or (4). Then mark it on your answer sheet.

Passage 1:

Systems used in critical applications such as health, commerce, transportation, utilities, and national security must be highly reliable. Ubiquitous use of computing systems and other electronic systems in these critical areas requires that computing systems have high reliability. High reliability is achieved by designing the systems to be fault-tolerant. Even though the high reliability requirements of computing systems gave the original impetus to the study of the design of fault tolerant systems, trends in manufacturing of VLSI circuits and systems are also requiring the use of fault-tolerant design methods to achieve high yields from manufacturing plants. This is due to the fact that with reduced feature sizes of VLSI circuit designs, and shortcomings of lithographic techniques used in fabrication, the characteristics of the manufactured devices are becoming unpredictable. Additionally, small sizes of devices make them susceptible to radiation induced failures causing run time errors. Thus it may be necessary to use fault tolerance techniques even in systems that are used in non-critical applications such as consumer electronics.

- 6- What was the primary motive that led to the advent of fault tolerant systems?
- 1) The high reliability requirements of computing systems
 - 2) The need to achieve high yields from manufacturing plants
 - 3) The unpredictability of characteristics of the manufactured devices
 - 4) Ubiquitous use of computing systems and other electronic systems in trivial applications
- 7- Which of the following phrases is meant by the passage?
- 1) The manufacturers finally give in to the demands for fault tolerant systems.
 - 2) Considerable dependability is a must in digital systems with critical applications.
 - 3) Manufacturers resist introducing fault tolerance in the implementation of VLSI circuits
 - 4) It is yet unpredictable if the manufacturers will yield to implement fault tolerant reduced sized VLSI circuits.
- 8- Which one of the following statements is false?
- 1) The reason for devices to be susceptible to radiation is their small sizes.
 - 2) The use of fault-tolerant design methods will also result in achieving high yields from manufacturing plants.
 - 3) One of the methods to achieve high reliability is to design the systems to be fault-tolerant.
 - 4) The reason for computing systems to have high reliability is their use in critical areas such as health, commerce, national security, etc.

24- What would be the impact of a slow BUS?

- 1) It has a great impact on the CPU performance.
- 2) Its impact on the CPU is greatly reduced.
- 3) Its impact on the Motherboard is greatly reduced.
- 4) It has a great impact on both CPU and the Motherboard performances.

Passage 3:

Credit cards have changed the way in which we handle our money. Today, your cash savings can be simply a series of numbers stored in the bank's computer. In the United States, over thirty billion checks are used each year to transfer approximately eight trillion dollars from one group or individual to another. The cost of processing these checks is more than five billion dollars a year for the bank fees alone. Because of this, a new system has been developed using a computer network to replace much of the check and cash handling. This network allows funds to be transferred directly from one bank account to another via the electronic funds transfer system (EFTS). Some people call this development the "cashless society". It simply means that it will be a society with fewer checks and less cash being used to buy things. Checks take about two to five days to process. The EFTS system allows funds to process within seconds using computers. The system also allows quick reporting on consumer spending habits for Governments making connected policies.

It is also much easier and safer for the individual to carry a card around instead of large amounts of cash. The EFTS purchase is easy. Imagine that you go shopping at the mall and need to buy groceries from the supermarket and clothes from a boutique. You go into the supermarket, select your items and take them to the checkout person who would scan the goods through with an electric scanner. Each item is automatically identified by the barcode and the cost will come up on the register. You decide to pay by EFTS and give the shop assistant your bank card, who then swipes it through a terminal. You enter the account you are transferring the funds from (savings, check or credit), and enter your personal identification number (PIN) into the EFTS terminal. The bank code on the card dials your account number checks if you have enough money and then transfers those funds into the supermarket's account. The shop you are buying your clothes from doesn't have EFTS terminals, so you decide to take extra one hundred dollars cash out of your account. You may just do that using the same system. There are many advantages of EFTS. It reduces the amount of cash people must carry- possibly avoiding robbery and loss. It also reduces the amount of cash that shops must keep in their registers. All this would not be possible without computers.

25- The cost of processing over thirty billion checks is:

- 1) At most five billion dollars a year.
- 2) About five billion dollars a year.
- 3) Exactly five billion dollars a year.
- 4) At least five billion dollars a year.

26- According to the article, what was the reason behind developing EFTS?

- 1) High cost of processing bank checks
- 2) Let credit cards handle people's money
- 3) To make the "cashless society" possible
- 4) To reduce the processing time of the bank checks

27- What does the "cashless society" means?

- 1) The society without using cash in all their transactions
- 2) The society without using cash but using checks for market transaction
- 3) The society with fewer checks and less cash being transferred to the banks
- 4) The society with fewer checks and less cash being used for market transaction

28- Which of the followings are not among the advantages of using EFTS?

- 1) Reduces the amount of money needed for the processing of bank checks.
- 2) Reduces the amount of time needed to process the checks, otherwise.
- 3) Reduces the profit of shops due to the reduction of cash in their registers.
- 4) Reduces the amount of cash people must carry, avoiding possible robbery and loss.

29- How supermarkets identify the price of items at the check out?

- 1) They identify the price of goods by standing checkout persons who check on price tags.
- 2) They identify the prices of goods by allowing the checkout persons asking the customer for the prices.
- 3) They allow the checkout persons to attach a barcodes on the items to be used for automatic identification of the prices.
- 4) They scan items using an electric scanner which allows the automatic identification of the price by the barcode.

30- Which one of the following statements is true?

- 1) EFTS system allows funds to process within seconds using computer, however, it takes two to five days to transfer the money to its destination.
- 2) EFTS system allows funds to process within seconds, using computers. However, It does not allow quick reporting on consumer spending habits for Governments making connected policies.
- 3) It is still possible to use EFTS to buy clothes from shops that don't have EFTS terminals. All the customer has to do is to ask another store with terminals to withdraw money from the customers bank account.
- 4) It is still possible to use EFTS to buy clothes from shops that don't have EFTS terminals. However, it does not allow reporting on consumer spending habits for Governments making connected policies.