1. Section One: Vocabulary

Matching Item: Please match the words under column A with their meaning under column B. There are two extra words under column A.

Dig out

A single outburst

Fighting

Discovery

Take Place

Occur

Excavate

Combat

Detection

Round

Spigot

Aerosol

Multiple Choice: Please select the best choice which means the same as the word underlined.

1. Artillery could thus no be deployed in the battle line.
2. Utilized
3. Spread Out
4. Manufactured
5. Concentrated
6. Modern artillery is distinguished by its large caliber.
7. Compare
8. Contrast
9. Perceive
10. Understand
11. Fixed-position weapons dedicated to defense of a particular location.
12. Rendered
13. Reached
14. Found
15. allocated
16. Use fins at the rear of the projectile in the airflow to maintain correct orientation.
17. Target
18. Position
19. Import
20. Surface
21. Ammunition with a low, or no explosive charge for use under training conditions.
22. States
23. Facts
24. Positions
25. speed

Persian Equivalence:

Please write meaning of each of the English words or phrases in Persian.

1. Velocity
2. Emerge
3. Spin
4. Mobility
5. Fire step

Please write meaning of each of the Persian words or phrases in English.

1. دوگانه
2. تجهیزات
3. دفاع کردن
4. اجتناب کردن
5. خونریزی کردنی
6. Section Two: Grammar

Multiple Choice: Select the choice which completes each blank best.

1. Active radar homing …………………… a radar on the missile provide a guidance signal.
2. Used
3. Using
4. To be used
5. Is using
6. This is a really nice photo. It was taken ……. my friend.
7. With
8. To
9. In
10. By
11. My brother has a twin boys. They ……………………….. 2 years ago.
12. Born
13. Was born
14. Were born
15. Are born
16. This industry will soon ……………………. in our country.
17. Be developed
18. Developing
19. Been developed
20. Has been developed
21. The house …………….. in 1963.
22. Was built
23. Have been build
24. Building
25. Was build

1. Reduce the relative clauses in the two following sentences.
2. The word which is used in the current context originated in the middle ages.
3. A cartridge which occurred in the 1920s with a simple fabric bag was quickly adopted by all nations.
4. Change the sentences into passive form.
5. Field artillery uses a lot of heavy guns.
6. Soldiers help the commander in the battlefield.
7. Eric Rohmer made this movie, Dustin Huffman played in it.
8. Section Three; Translation

Please select the choice which is best Persian translation of each sentence:

1. Barbed wire entanglements are artificial obstacles designed to impede the movement of foot troops and, in some cases, tracked and wheeled vehicles.

الف- شبکه های سیم خاردار موانع مصنوعی هستند که به منظور ممانعت از پیشروی نیروهای پیاده و در برخ موارد خودروهای شنی دار و چرخدار طراحی شده اند.

ب- شبکه های رادیویی با سیم تجهیزاتی هستند که توسط افراد پیاده حمل می شوند.

ج- موانع مصنوعی از سیم خاردارهایی تشیل شده اند که توسط خودرو پیاده و یا افراد جابجا می شود.

د- شبکه های سیم خاردار موانع مصنوعی هستند که به منظور کانالیزه کزدن نیروهای پیاده به سمت تانکهای خودی طراحی شده اند.

1. Fire support planning is the continuing process of analyzing, allocating, and scheduling fire support.

الف- طرح پشتیبانی آتش فرایند مستمر از تجزیه وتحلیل، تخصیص و برنامه ریزی پشتیبانی آتش می باشد.

ب- طرح پشتیبانی آتش فرایند تجزیه وتحلیل و برنامه ریزی پشتیبانی را انجام می دهد.

ج- طرح پشتیبانی آتش یکی از مراحل تجزیه و تحلیل و تخصیص و برنامه ریزی پشتیبانی است.

د- طرح پشتیبانی آتش همواره در حال تجزیه و تحلیل و تخصیص و برنامه ریزی است.

1. A unit furnishes fires for the entire force within its range.

الف- یک واحد، آتش را برای تمام نیروها فراهم می کند.

ب- هر واحد باید آتش توپخانه پیرامون خود را فراهم کند.

ج- فراهم کردن آتش از کارهای یک واحد است.

د- یک واحد، آتش را برای تمام نیروهای در حیطه آن فراهم می کند.

Please translate the following 4 sentences/short paragraphs into Persian.

1. Modern field artillery can also split into two other categories: towed and self-propelled.
2. Delay fuses are used to allow the round to penetrate into the earth before exploding.
3. Units expected to conduct a river crossing anticipate and plan for it in advance.
4. During the mission analysis phase, your fire support officer must accomplish several tasks.
5. Section Four: Reading Comprehension
6. Text One: Read the following paragraph carefully, the select the choice which best completes each statements.

Some kinetic weapons for targeting objects in spaceflight are anti-satellite weapons and anti-ballistic missiles. Since they need to attain a high velocity anyway, the can destroy their target with their released kinetic energy alone; explosives are not necessary. Compare to energy of TNT, 4.6 MJ/kg, to the energy of a kinetic kill vehicle with a closing speed of 10 km/s, which is 50 MJ/kg. This saves costly weight and there is no detonation to be done at the right time, but on the other hand it requires a more accurate hit.

1. What kind of weapon is anti-satellite?
2. Energy
3. Kinetic
4. Potential
5. Velocity
6. What is needed more in kinetic weapons in comparison to TNTs?
7. Good location
8. Accurate hit
9. Explosives
10. Energy
11. Why kinetic weapons can destroy their targets whit their energy?
12. High speed
13. High Power
14. Low range
15. Low Power
16. In comparison to TNT, kinetic weapons saves ………………..
17. costs
18. time
19. TNT
20. speed
21. What is the speed of kinetic weapon kill a vehicle?
22. 50
23. 10
24. 4.6
25. Not mentioned
26. Why there is no need of explosives for kinetic weapons?
27. What is the difference between energy of TNT and kinetic weapons?
28. Text two: Read the following paragraph carefully, then answers following questions.

The rise in unemployment is partly due to the economic crisis. Because of competition with Japan and other Asian countries which produce better quality products at a minimum cost, thousands of factories in America and Europe have been forced to close or to reduce the number of their workers. On the other hand, millions of unemployed people can’t find a job because the work they did is now unnecessary or has been made easier by machines : farming, mining, automobile assembly and banking rely more and more on robots and computers.

1. What is characteristic of Asian countries in marketing?
2. Why millions of unemployed people can't find a job?
3. What Americans did to solve the problem of being slow in making cans?