7 The electrical engineer didn't advice me anthing
8 The short circuit didn't damage the device, ?
9 This television set didn't cost me too much,
10 The starter needs a new magnetic field,?
XII SUPPLY THE TAG QUESTIONS TO THE FOLLOWING SENTENCES.
1 They didn't know anything about engineering,?
2 She came late yesterday,?
3 It didn't work properly,?
4 The generator works better with the new accesories,
, justing pay along add no blood of the
5 The battery has to be checked,?
6 The current gauge shows 20 amperes,?
7 This antenna doesn't work for this device,?
8 This old radio doesn't use any transistor,
9 She doesn't like to talk about computers,
10 They didn't forget turning off the radio,
11 - They took a course to operate the new machines,
I They worked overtime.
12 The engineers began to work yesterday,
13 We don't like to work in a laboratory,
14 The supervisors live far from the factory,
15 Engineers and supervisors work together,
T - They bettery toesn't support too ment they better

When matter and antimatter are brought together, they can annihilate each other to form a state of pure energy. A fundamental principle - of Physics demands that the reverse of that process also be possible: a state of pure energy can quite literally materialize to form -----particles of ponderable mass. When the matter and antimatter are - an electron and a positron, the state formed by their annihilation--consists in of electromagnetic energy. It is a particularly simple - state since electromagnetism is described by a well tested theory -- and is believed to be understood. For some time physicists have been-eager to learn just what kind of particles are created when an ----electron and a positron collide at high energy. During the last ----years, several experiments have provided a preliminary view of the-annihilation expectations. The discoveries are the most startling -- and exciting to emerge from high-energy Physics in a decade or more.

One reason for the great interest in these experiments is that -provide a means of testing a central concept of modern particle --Physics: the notion that the "herd " of supposedly elementary ---particles discovered during the past 25 years may actually be ---assemblages of only a few structureless entities that are truly --fundamental. These constituent particles have been named QUARKS. --Different versions of these quark theory make different predictionsabout what is to be expected in the aftermath of an electron-positron
annihilation, and it is hoped that the experiments would help to --determine which version is the correct one.

As it turned out, the results of an initial series of experiments was not accord with any of the predictions. As the measurements were been repeated and refined, two massive particles were unexpectedly—discovered. By coincidence the discovery of the first of the ———particles was announced simultaneously by Physicists at two ————labo ratories studying quite different reactions.

The subatomic particles can be classiffied in broad families ----

according to the kinds of interactions they participate in, or, asit is often put, according to the kinds of forces they "feel". Theforces considered are the four fundamental ones that are believedto account for all observed interactions of matter: gravitation, -electromagnetism, the strong force and the weak force.

YACOT EDIBYHA.

The electromagnetic force has infinite range, but it acts only on matter that carries an electric charge or current. The "PHOTON"
is the carrier of the electromagnetic force, and when two particles
interact electromagnetically, they can be considered to exchange a
photon or photons. In the classification of particles the photon is
in a category by itself; it has no mass and no charge and it does not participate in either strong or weak interactions.

All particles except the photons are classified according to --their response to these two forces. Those that feel the strong ---force are called "Hadrons"; those that do not feel the strong ---forces but do not respond to the weak force are called "Leptons".-Particles belonging to these two families have quite different ---properties.

In the experimental and theoretical investigations now under --many current concepts are being challenged: one however is not in questions: That of quarks themselves. The discovery of particles -called "Psi" has confirmed again the central importance of quarks as the constituent particles of hadrons. Whether or not we shall -ever see free quarks in the laboratory is another question: it is possible that they will always remain unobserved, exhibiting theirphysival reality only through their success in explaining the ---structure of hadrons and the forces that act on them.

Furthermore, we have no assurance that the quarks, whether there are three or nine or 12 or more of them, are the fundamental ----particles of matter. In the 20th century Physics has proved the --atom to discover the nucleus within, and has broken up the nucleusinto its constituent particles. Those particles are now interpreted
as being composites of more basic entities, the quarks. It is not unreasonable to imagine that we shall someday penetrate the quark and find an internal structure there as well. Only the experimentsof the future can reveal whether quarks are the indivisible ----building blocks of all matter, the "atoms" of Democritus, or ---whether they too have a structure, as part of the endless series of seeds within seeds envisioned by Anaxagoras.

I ANSWER " TRUE " OR " FALSE "
. sellinst Spordio Vilmat Lord sid vilmat limit at a
1 When matter and antimatter are brought together they can not
annihilate each other
nothable electron-laws boother percentile
2 When the matter and antimatter are an electron and a positron -
the state formed by their annihilation consists of
electromagnetic energy
consider sangedly sarapette tagons of
3 Electromagnetism hasn't been described very well and it hasn't -
been understood yet
amouta(6 an ronst
4 When an electron and a positron collide at high energy, the
particles created have been known since long ago
Spender lie Sone
5 The results of an initial series of experiments were not accord
with any of the predictions
sheet to certee caultes as at "mote" as rear heretes of seeds E
6 The discovery of the first of the particles was ennounced by
two Physicists from different laboratories with a year of
difference
7 The new particles have extraordinary stability
PAREMART III
8 Their nature has already been satisfactorily explained
8 Their nature has already been satisfactorily explained
8 Their nature has already been satisfactorily explained 9 The fundamental forces that account for all observed interactions
8 Their nature has already been satisfactorily explained
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8 Their nature has already been satisfactorily explained 9 The fundamental forces that account for all observed interactions of matter are four
8 Their nature has already been satisfactorily explained

3. - The subatomic particles can be classified in: THE TRANSMA - I a)a small family b)a broad family c)broad families. 4 - The carrier of the electromagnetic force is the: a)Photon b)Atoms c)Psi-particle d)Hadron 5 .- The particles that do not feel the strong forces but do not --respond to the weak force are called: a 'Electrons b) Quarks c) Leptons d) Photons .. The particles that feel the strong force are called: alleptons b) Hadrons c) Photons d) Atoms (.- Who considered that an "Atom" is the indivisible building block of all matter? a)Democritus b)Ptolemy c)Michelangelo d)Socrates 8.- Who envisioned that an "atom" is an endless series of seeds -within seeds? a) Homer b) Plato c) Anaxagoras d) Julius Caesar III. - TRANSLATE 1.- A state of pure energy can materialize. 2.- The state consists of electromagnetic energy. 3.- The particles created when an electron and a positron collide. 4.- The discoveries are startling and exciting. 5.- These constituent particles have been named Quarks. 6.- The measurements were being repeated. 7 .- Their nature has not been satisfactorily explained. 8 .- The forces are gravitation, electromagnetism, the strong forceand the weak force.

10 -It is possible that they will always remain unobserved.

have assembled all the tools and tricks that engineers and actentist have -

3.7.5 PICHTMARE.

-- of ead , valideew survey on an inverse of the to all weeklay, has to -and support personnel fight through the crush to the 23 sites where the - games are being held. The worst grunon by far will come in the worst - 101 -.. a dervent the orucial test: whether the system worked to the eruning A - .6 awarded to Itis Angeles in 1978, but it has long been too late for that. Thealternative as to make the existing network operate at optimum efficiency. more than a decade grappiing with traffic orises along the freeways of tos os Angeles in 1971. All scrivity is monitored from a quiet room dominated -Such efficiency has been made possible by incressingly fast computers. at 1,200 tenations every 30 seconds while at the same time passing along - .

9.- It is a matter that carries electric charge.

To prepare for the Olympic overload, California transportation officials have assembled all the tools and tricks that engineers and scientist have devised to get people on, over and off major highways.

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During the Olympics, the freeways of the Los Angeles basin which already hundle 125 million vehicle-miles of travel on an average weekday, has to -absorb 12.5 million more when spectators as well as 12,000 athletes, coaches and support personnel fight through the crush to the 23 sites where the - games are being held. The worst crunch by far will come in the worst - - - possible area: downtown.

The last Olympiad has became a vast experiment to verify traffic theories based on everything from the Physics of fluids to plain mathematical modelsof roadway capacity.

The moment of truth arrived on August 3rd. the first of the five days - expected to have the heaviest traffic, when all the theories devised - - - underwent the crucial test: whether the system worked in the crunch.

One solution would have been to build more freeways after the games wereawarded to Los Angeles in 1978, but it has long been too late for that. Thealternative is to make the existing network operate at optimum efficiency. -Caltrans (California Department of Transportation) had been working that for more than a decade grappling with traffic crises along the freeways of Los -Angeles and Orange countries from an operations center opened in downtown --Los Angeles in 1971. All activity is monitored from a quiet room dominated by a map or the entire region, that stretches the length of one wall. Each freeway is marked at intervals with red, amber, and green lights. Red meansthat traffic is moving at less that 20 miles an hour, a flashing red light signals an accident. Amber lights indicate that traffic is rolling along - between 20 and 40 miles an hour, and green lights shine for speed above 40 miles an hour. At 8.00 A.M. during a normal morning rush hour, says Caltrans Traffic Engineer Robert Zimowski, up to 90 per cent of the freeways leadinginto central Lon Angeles show solid red on the map.

When a major accident happens (a crash, a fallen power line) monitoring devices pinpoint the site and officials begin to respond within four minutes, less than one fifth the time it took before the center went into operation .-Such efficiency has been made possible by increasingly fast computers.

The system Caltrans in now bringing on line can check traffic conditionsat 1,200 locations every 30 seconds while at the same time passing along - instructions to traffic signals and overhead messages boards along the - - freeways.

During the Olympics, Caltrans found out what technology can do for a - -system that is already overtaxed. With no horrendous accidents a great dealof good driving, and close watch on those green amber and red light up on -the big board at traffic central, the Olympics could sail on by.

Otherwise, Caltrans could be reduced to flashing the nessages that once startled drivers on the Santa Monica Freeways: THIS SIGN ISN'T WORKING.

I ANSWER "FALSE " OR " TRUE "	
1 "Caltrans" means "California Department of Transportation".	
2 To get people on, over and off major highways with no problems is very easy.	
1 - File Torthooming Olympiad has emocad and haigmylO golmoodfol adT S	
3 The 1984 Olympiad has become an important experiment on traffic theories	
4 Los Angeles and Orange counties have never had traffic crises along their	
freeways shapen a made erom not tank animow meed and ensualso - 4	
5 The map of the region stretches the length of one wall	
6 Each freeways is marked at intervals with red, amber and blue lights	
Tel sames	
7 Red means that traffic is rolling along between 40 and 50 miles an hour	
Clerra Clerra	
8 A fallen power line is considered a major accident	
9 Computers are helping to solve the problem	
10The most critical moment will arrive on August 3rd	
SECTION AND ADDRESS OF THE PROPERTY OF THE PRO	
9 A great dealnot good driving.	
II GIVE THE RIGHT ANSWER TAKING IT FROM THE LIST BELOW.	
10 This sign tenting.	
1 Can the transportation officials solve the traffic problem very easily?	
9 - 1	
2 Are engineers and scientist working together to solve the Los Angeles Traffic	
problem?	
3 Will the traffic problem get worse during the Olympic Games?	
4 How many are the sites where the games will be held?	
5 Where will the worst traffic problem be located?	
6 Does the red light mean that traffic is too slow?	
7 Have the L.A. authorities built an extra network of freeways?	
8 Is all activity monitored from two noisy rooms?	
9 How many locations can be checked every seconds?	
9 How many locations can be checked every seconds?	
9 How many locations can be checked every seconds?	

NO , THEY AREN'T	1,200 LOCATIONS	NO, THEY CAN'T
NO, THEY HAVEN'T	YES, IT DOES	NO, IT ISN'T
23 SITES	DOWNTOWN	NO, IT DOESN'T
YES, IT WILL	YES, THEY ARE	48 SITES