Read the scientific article below and circle the letter of the correct answers to the questions about it.

**Understanding Who a Scientist Is**

**Scientists** are people that study things in our world and universe and how they work. Scientists try to learn enough about things to be able to predict how they behave. Scientists often come up with **theories** and **formulas** to describe how things work. Scientists gain knowledge by observing and carrying out experiments. The process that scientists use to learn about and discover things is called the **scientific method**.

The scientific method is a way that scientists experiment to figure out **cause and effect** relationships between things in nature. The basic steps in the scientific method are: (1) **What’s the question** we want to answer, (2) Do some background research, (3) **Come up with a hypothesis** (an educated guess at an answer to the question), (4) **Design and carry out experiments** to test the hypothesis and record the results, (5) **Analyze** the results and draw conclusions, (6) **Decide if the hypothesis right or not**, (7) If the hypothesis was right, publish the **results**; if not go, back to step 3 and try again. To test their hypotheses, **scientists** (1) Observe what they are studying, (2) **Classify** what they observe, (3) Take measurements, (4) **Infer and predict** outcomes based on their results, (5) **Communicate** their results and discoveries.

There are many different branches of science that scientists specialize in such as: Chemistry, Physics, Biology, Astronomy, Mathematics, Environmental Sciences, Computer Science, and Behavioral and Social Sciences.

1. Scientists are people that study: a. Only things they observe under the microscope  
b. How things in our world and universe work  
c. Only things in outer space through a telescope

2. Scientists make discoveries by a process called: a. The scientific method  
b. The trial and error method  
c. The observe and analyze method

3. Once scientists make a discovery they can: a. Make a lot of money from inventions  
b. Win scientific awards and science fairs  
c. Predict how a certain thing or things will behave

4. Typical branches of science include: a. Chemistry, Biology, and Astronomy  
b. History, Literature, and Religion  
c. Astrology, Numerology, and Cosmetology

5. Scientist gain knowledge by: a. Trial and error  
b. Observing and carrying out experiments  
c. Communicating ideas with other scientists
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