

- 130 . There are some specialties within medicine which are closely..... anesthesia.  
a. affiliated to                      b. affronted by                      c. administered to                      d. acquired by
- 131 . The purpose of the recent studies was to ..... the main cause of illiteracy in children.  
a. captivate                      b. extend                      c. conduct                      d. explore
- 132 . Health education comprises opportunities for learning communication and life skills which are ..... individual and community health.  
a. competent in                      b. conducive to                      c. departed from                      d. deposited on
- 133 . Health authorities will ..... soon to discuss the problem of air pollution.  
a. confront                      b. convene                      c. circumvent                      d. restore
- 134 . One of the most obvious features of the teacher-learner relationship is that it is formal, and therefore is ..... by social and institutional roles.  
a. contradicted                      b. aggravated                      c. constrained                      d. replicated
- 135 . The new study proved the ..... between smoking and lung cancer.  
a. link                      b. loss                      c. loop                      d. joint

## Part two: Reading comprehension

Directions: Read the following passages carefully. Each passage is followed by some questions. Complete the questions with the most suitable words or phrases (a, b, c & d) below each one. Base your answers on the information given only.

### Passage 1

Scientists have examined a protein that enables people to modify their behavior to adjust to slightly changed experiences. When circumstances change and our usual route is blocked, our stored memories work no longer, and we must find alternative solutions. Behavioral flexibility is partially driven by protein synthesis, which produces changes in neural function. The researchers investigated the issue by focusing on PERK, an enzyme that regulates protein synthesis and modifies eIF2alpha required for proper protein synthesis.

The researchers conditioned both normal mice and mice without PERK, which heard an audible tone followed by a foot shock. Both groups froze out of fear when hearing the tone, anticipating the shock. The team then removed the shock from the procedure so that the mice only heard the tone. They observed that the normal mice did not freeze after hearing the tone anymore, whilst the mice lacking PERK continued to freeze. The team also conducted postmortem analyses of human brain samples from both schizophrenic and healthy individuals. They discovered that the healthy individuals' samples had normal levels of PERK, whilst those from schizophrenic patients had less protein. The author noted, "a list of neurological and neurodegenerative diseases, including Alzheimer's, Parkinson's, and Fragile X syndrome, have already been linked to aberrant protein synthesis. Results show the significance of PERK in maintaining behavioral flexibility and how its absence might be associated with schizophrenia."