

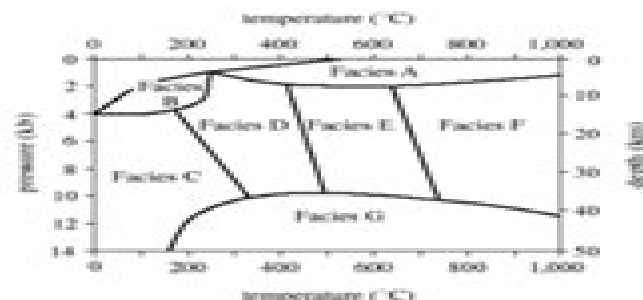
**DIRECTIONS:** There are seven passages in this test. Each passage is followed by several questions. After reading a passage, choose the best answer to each question and fill in the corresponding oval on your answer document. You may refer to the passages as often as necessary. You are NOT permitted to use a calculator on this test.

**Passage 1 - What type of question is this? Is it one of the easiest, hard or hardest?**

Metamorphic rocks form when temperature and/or pressure cause changes in preexisting rock. Figure 1 shows the temperature and pressure conditions in which certain *facies* (categories of metamorphic rocks) are formed.

**Passage 1**

Metamorphic rocks form when temperature and/or pressure cause changes in preexisting rock. Figure 1 shows the temperature and pressure conditions in which certain *facies* (categories of metamorphic rocks) are formed.



(Note: Boundaries are not actually sharp, distinct lines.)

Figure 1

Figure adapted from Sheldon J. Isaac, Marvin Kauffman, and L. Don Leet, *Physical Geology*. ©1982 by Prentice-Hall, Inc.

A rock's *metamorphic grade* (a measure of the intensity of metamorphism) is classified on a scale of low (very similar to the original rock) to high (very different from the original rock). Table 1 lists the grades of Facies A–G from Figure 1. Figure 2 shows characteristic minerals that may be present in rocks of a given grade.

Table 1	
Facies	Metamorphic grade*
A	low
B	low
C	low to medium
D	low to medium
E	medium
F	medium to high
G	high

\*Metamorphic grade is a measure of the intensity of metamorphism.



Figure 2

Figure 2 adapted from Frank Press and Raymond Siever, *Earth*. ©1984 by W. H. Freeman and Co.

A rock's *metamorphic grade* (a measure of the intensity of metamorphism) is classified on a scale of low (very similar to the original rock) to high (very different from the original rock). Table 1 lists the grades of Facies A–G from Figure 1. Figure 2 shows characteristic minerals that may be present in rocks of a given grade.

1. According to Figure 2, which of the following minerals would most typically be found only in rocks of a medium grade?

- A. Muscovite
- B. Biotite
- C. Kyanite
- D. Plagioclase

# Act 0861b Science Test

**Craig Gehring**



## **Act 0861b Science Test:**

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