* **Question 1**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | 10 As light enters a region with higher index of refraction light appears to |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct  slow down | | Answers: | no changes at all in the net speed | |  | speed up | |  | Correct  slow down | |  |  |  |

* **Question 2**

0 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Incorrect | 10 Fermat's principle says that a ray of light propagates from A to B so as to |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Incorrect  take the shortest distance | | Answers: | take the longest distance | |  | take the longest time | |  | take the shortest distance | |  | Correct  take the shortest time | |  |  |  |

* **Question 3**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | 10 If light hits at smooth shiny surface at 30 degrees with the normal it will bounce at |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct  30 degrees with the normal | | Answers: | 90 degrees with the normal | |  | 60 degrees with the normal | |  | Correct  30 degrees with the normal | |  | 45 degrees with the normal | |  |  |  |

* **Question 4**

0 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Incorrect | 10 If we approach a swimming pool and see a coin at the bottom, what can we say about the location of the coin? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Incorrect  It appears to be deeper than where it actually is | | Answers: | It appears to be deeper than where it actually is | |  | It is at the same depth as it appears to us | |  | Correct  It appears to be closer to the surface than where it actually is | |  |  |  |

* **Question 5**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | 11 Rays that go through the center of a thin lens |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct  are not deflected (change direction) at all | | Answers: | are deflected (change direction) just a little | |  | Correct  are not deflected (change direction) at all | |  | are deflected (change direction) the most | |  |  |  |

* **Question 6**

20 out of 20 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Are you in class? Or, you were not in class but have been excused? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct  Yes | | Answers: | Correct  Yes | |  | No | |  |  |  |