

Non-functional Requirements Questionnaire

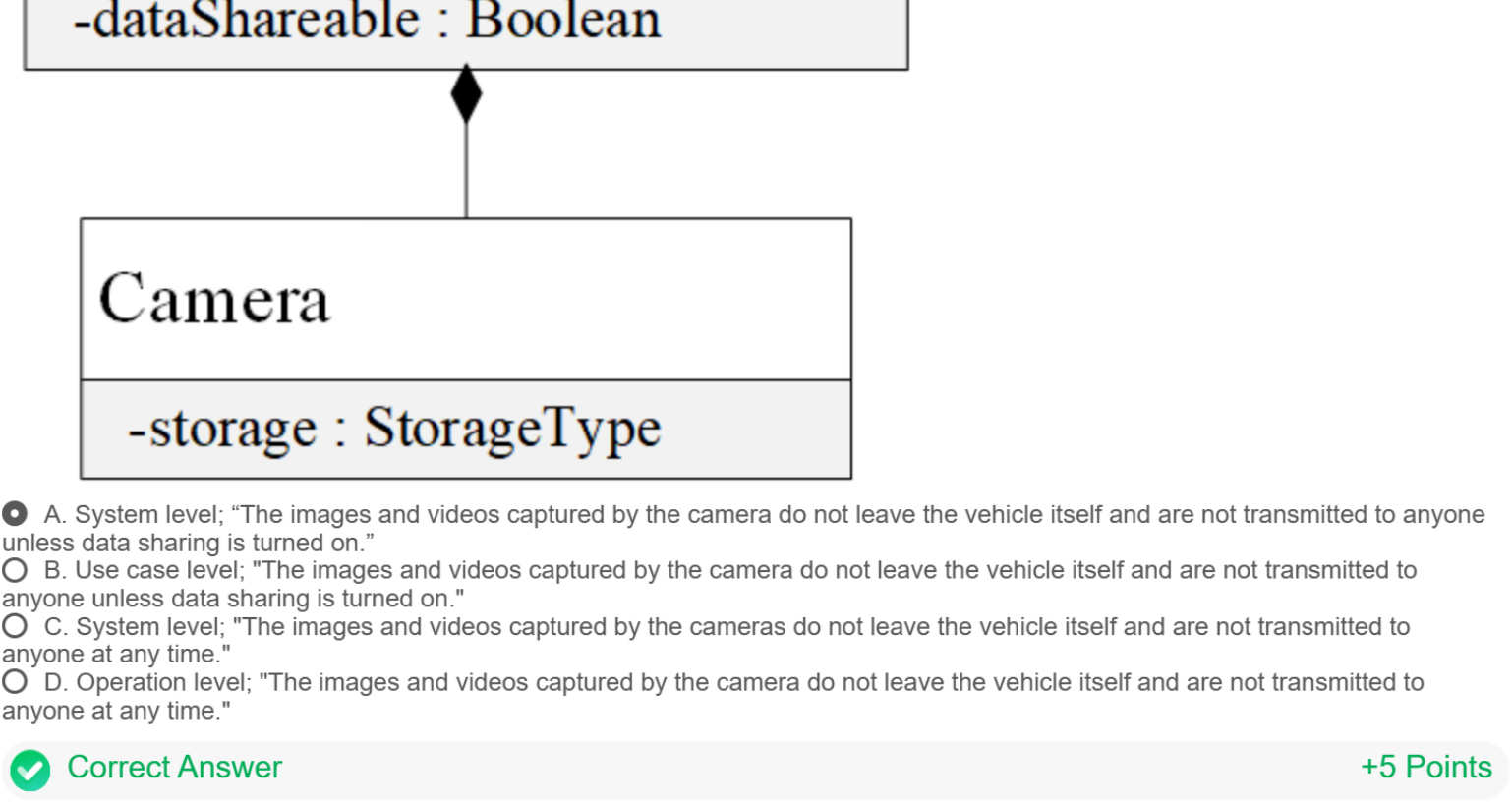
<div>25</div>	5
Correct	
total points:40	questions:8

Detailed

1、The formal language of the non-functional requirement is:

WHEN  
Car.dataShareable = false  
the System shall  
Camera.storage = PRIVATE

Please refer to the following diagram to select the correct level and natural language for the non-functional requirement ( ) .

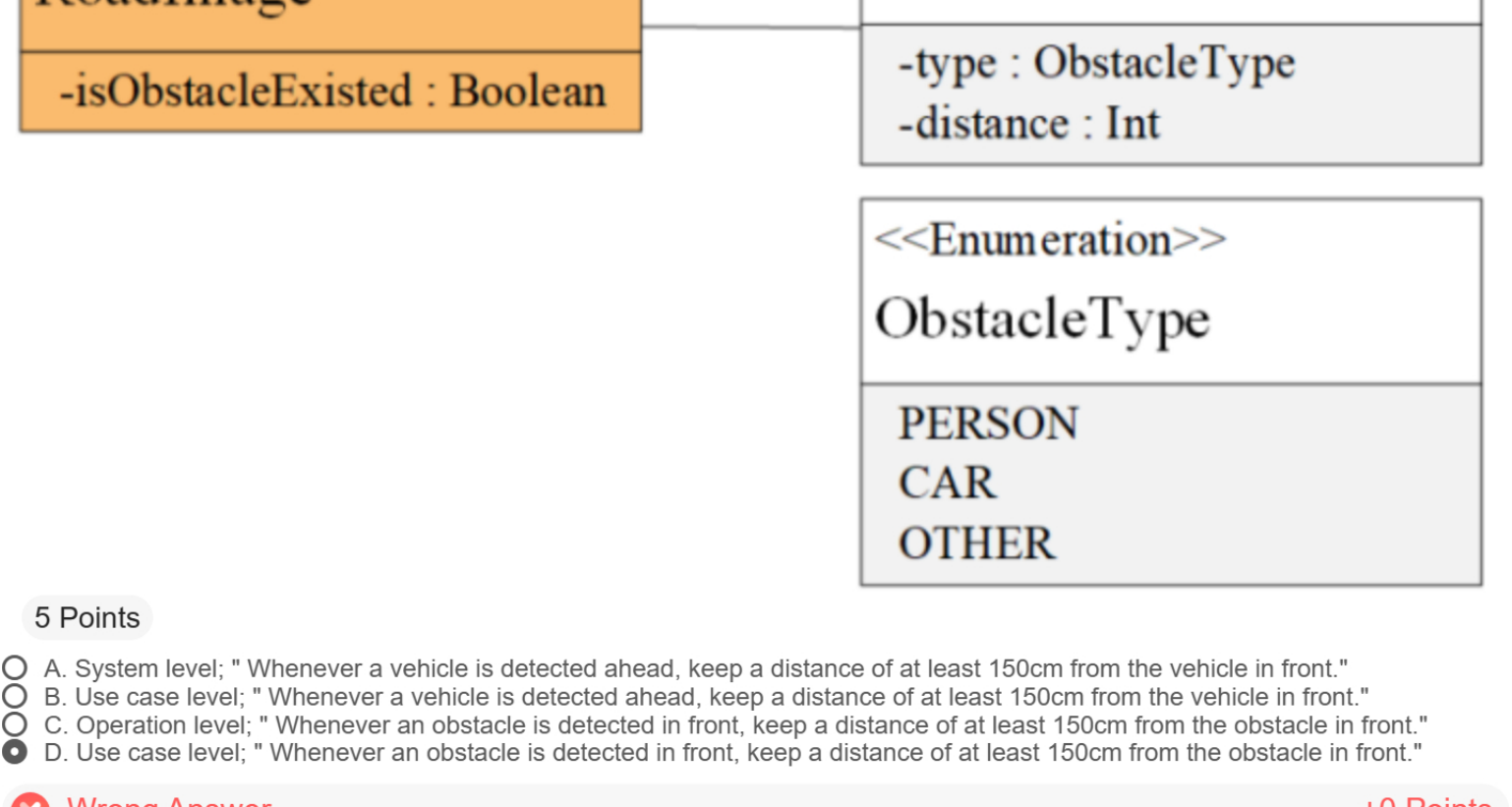


Correct Answer +5 Points

2、The formal language of the non-functional requirement is:

WHEN  
RoadImage.isObstacleExisted = TRUE and  
Obstacle.type = CAR  
the UC shall  
Obstacle.distance >= 150cm

Please refer to the following diagram to select the correct level and natural language for the non-functional requirement ( ) .



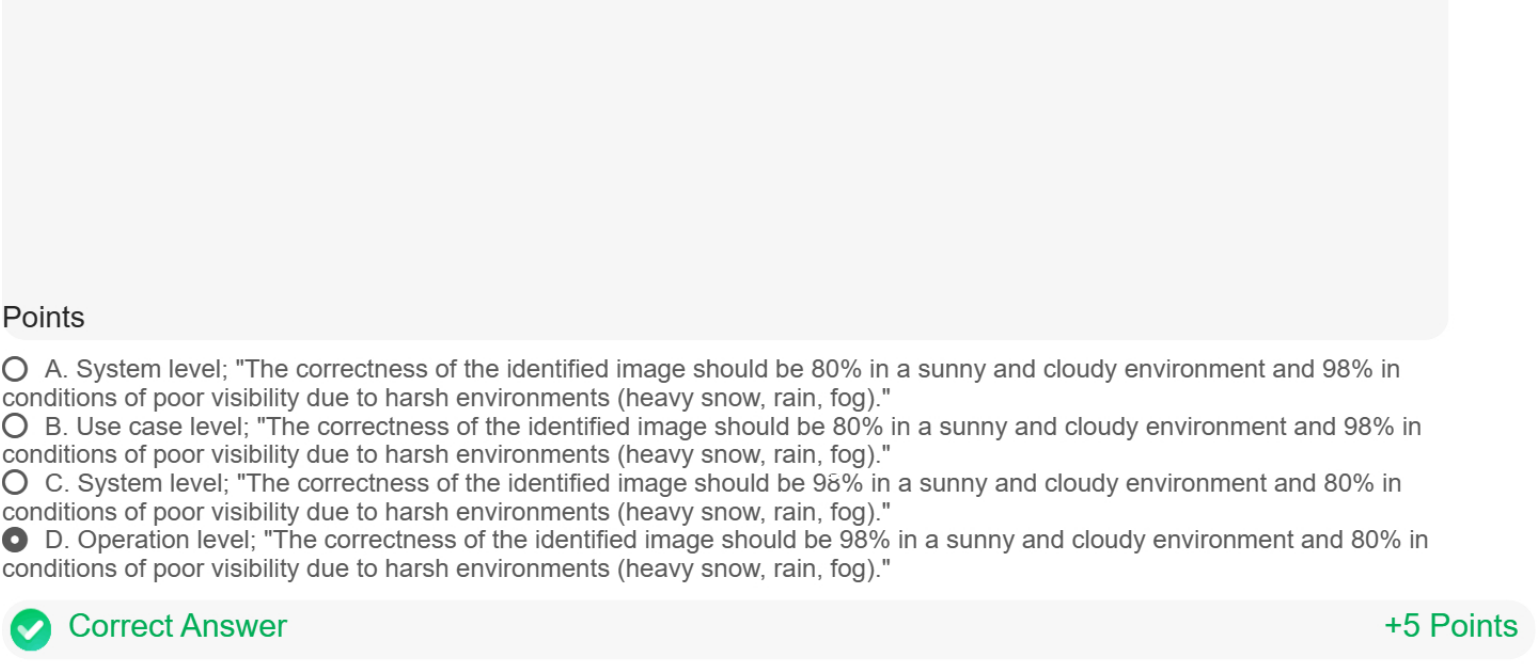
Wrong Answer +0 Points

Correct Answer:  
B. Use case level; " Whenever a vehicle is detected ahead, keep a distance of at least 150cm from the vehicle in front."

3、The formal language of the non-functional requirement is:

WHILE  
Weather.Type = SUNNY or  
Weather.Type = CLOUDY  
the Operation shall  
IdentifyImages.Correctness >= 98%  
WHILE  
Weather.Type = RAINY or  
Weather.Type = SNOWY or  
Weather.Type = FOGGY  
the Operation shall  
IdentifyImages.Correctness >= 80%

Please refer to the following diagram to select the correct level and natural language for the non-functional requirement ( ) .

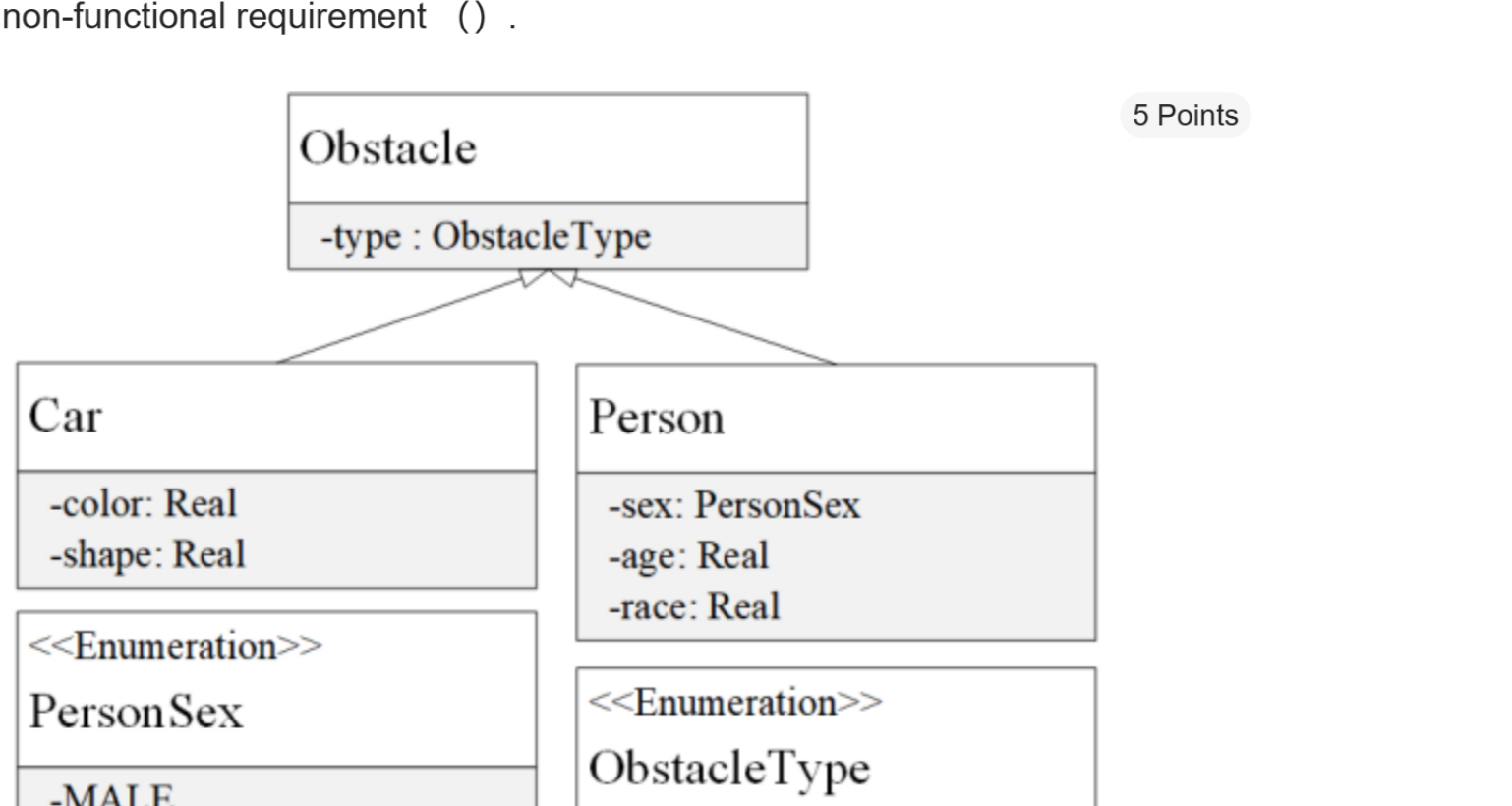


Correct Answer +5 Points

4、The formal language of the non-functional requirement is:

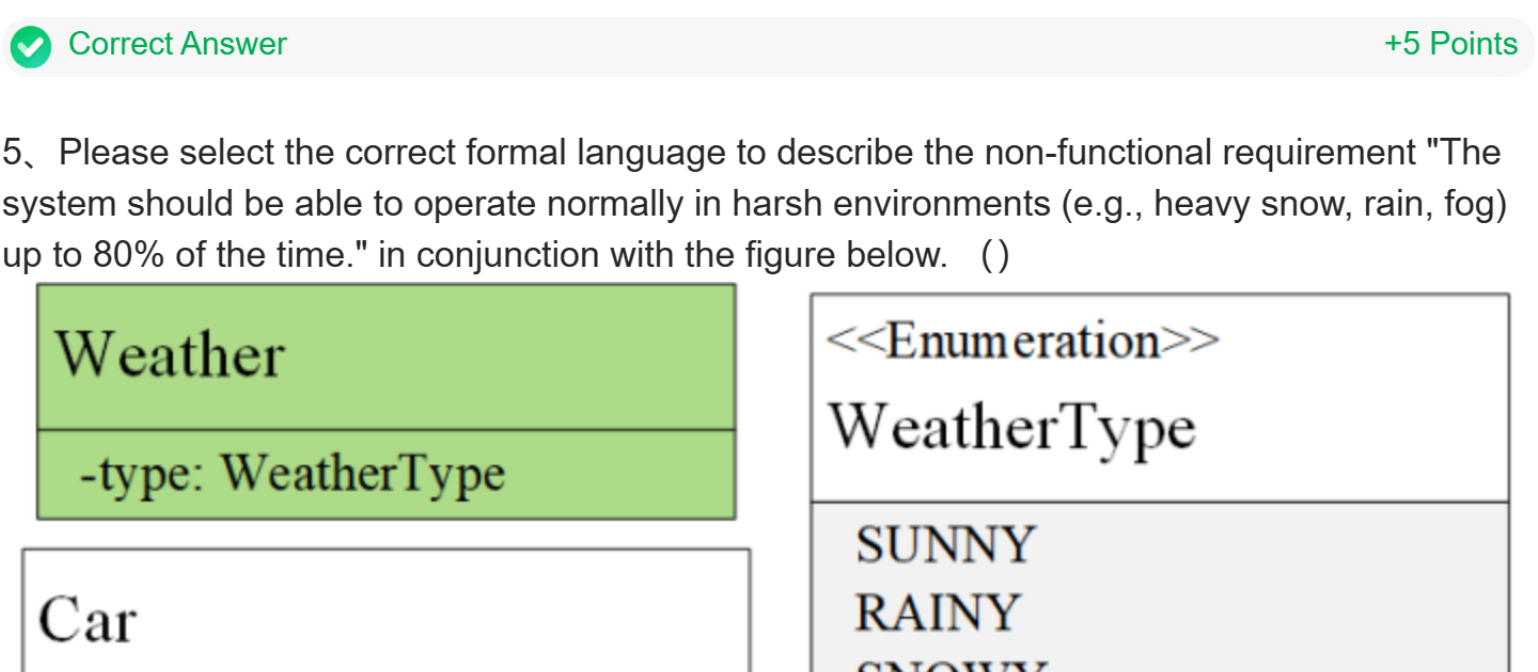
The Operation shall  
isIdentifyObstacle = true and  
Obstacle.type = any and  
Person.sex = any and  
Person.age = any and  
Person.race = any and  
Car.color = any and  
Car.shape = any

Please refer to the following diagram to select the correct level and natural language for the non-functional requirement ( ) .



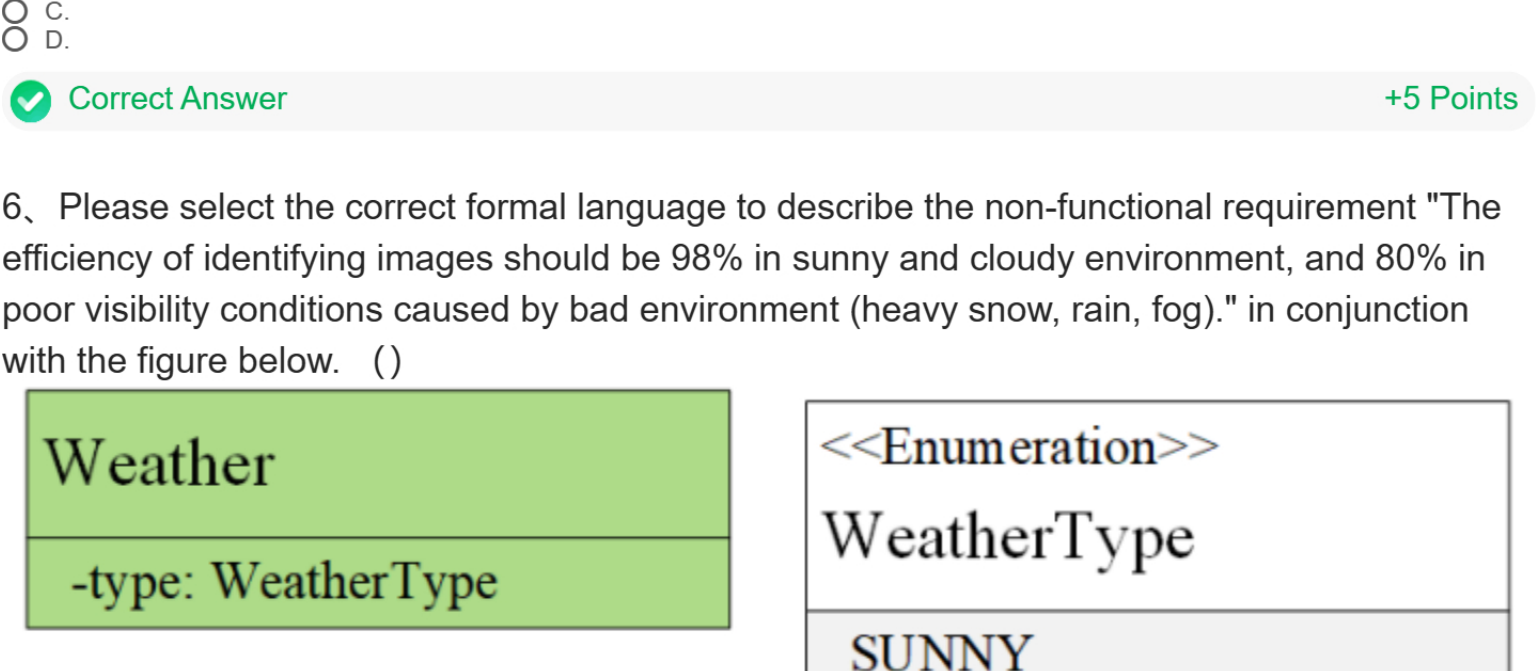
Correct Answer +5 Points

5、Please select the correct formal language to describe the non-functional requirement "The system should be able to operate normally in harsh environments (e.g., heavy snow, rain, fog) up to 80% of the time." in conjunction with the figure below. ( )



Correct Answer +5 Points

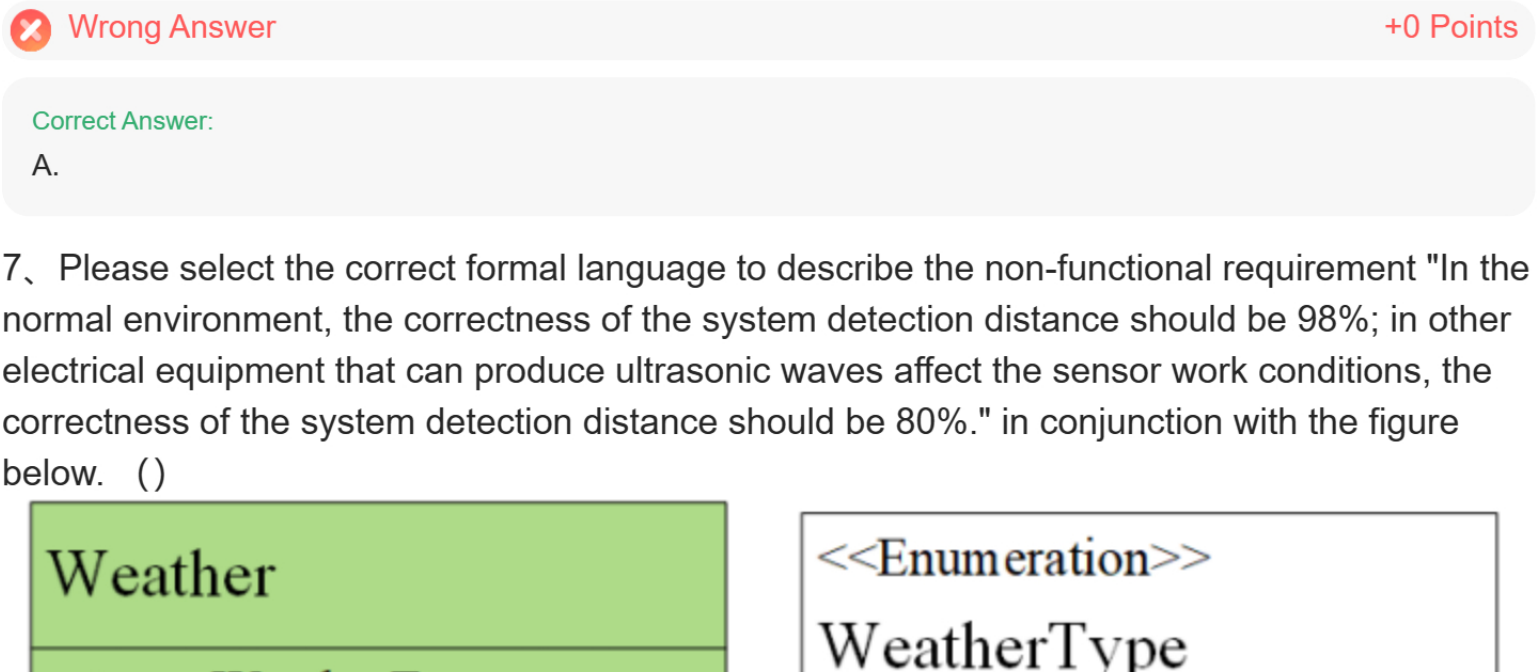
6、Please select the correct formal language to describe the non-functional requirement "The efficiency of identifying images should be 98% in sunny and cloudy environment, and 80% in poor visibility conditions caused by bad environment (heavy snow, rain, fog)." in conjunction with the figure below. ( )



Wrong Answer +0 Points

Correct Answer:  
A.

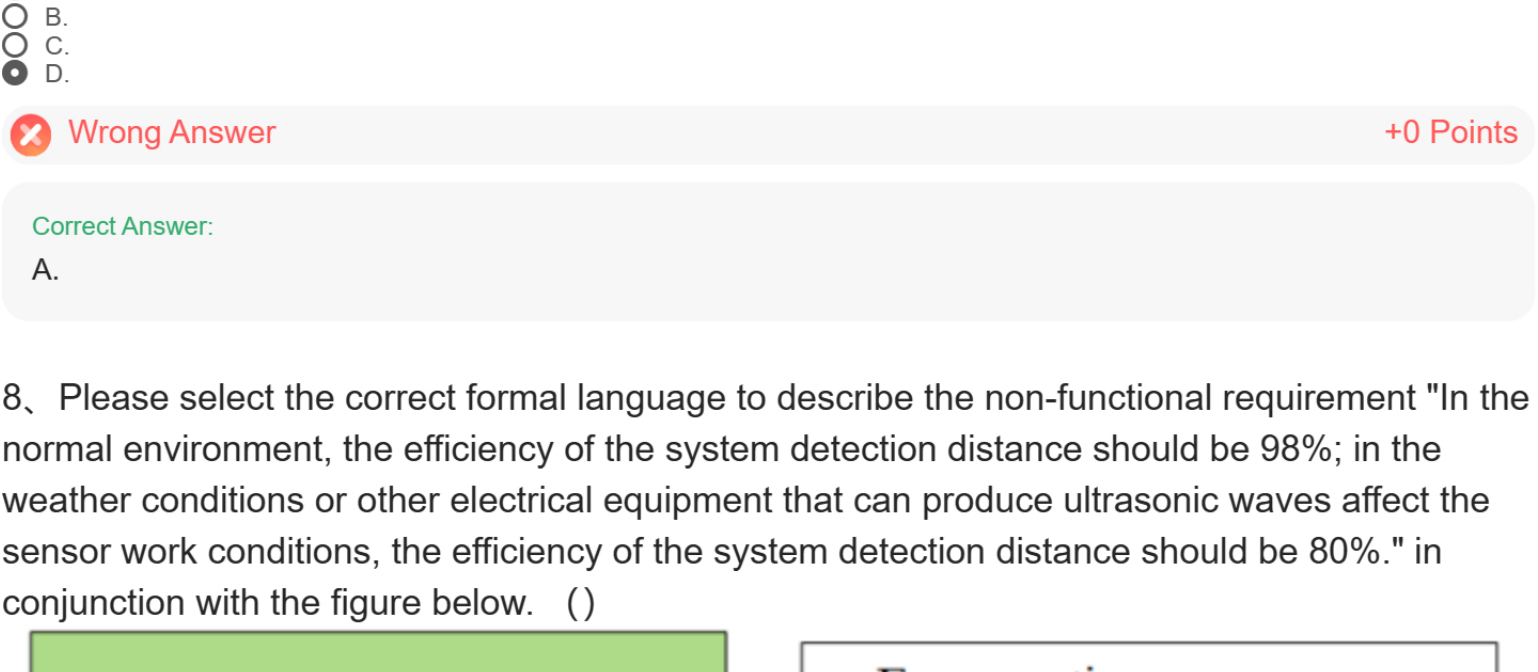
7、Please select the correct formal language to describe the non-functional requirement "In the normal environment, the correctness of the system detection distance should be 98%; in other electrical equipment that can produce ultrasonic waves affect the sensor work conditions, the correctness of the system detection distance should be 80%." in conjunction with the figure below. ( )



Wrong Answer +0 Points

Correct Answer:  
A.

8、Please select the correct formal language to describe the non-functional requirement "In the normal environment, the efficiency of the system detection distance should be 98%; in the weather conditions or other electrical equipment that can produce ultrasonic waves affect the sensor work conditions, the efficiency of the system detection distance should be 80%." in conjunction with the figure below. ( )



Correct Answer +5 Points