Hiring Test-1

Hello,
Please find the link for the test attached below. The test will be initiated at sharp 3:30pm.
The candidates are supposed to complete and submit the test within 15mins. Submissions after 18mins will not be considered.
To start the test please click on the the "fill out form" button.

* Required

Email *

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What is CORS? * 2 points

Your answer

This is a required question

What is the value of Sin45? 1 point

- √2/2
- 2/√2
- √2
- 1

What is Sinθ/Cosθ? 1 point

- cotθ
- cscθ
- tanθ
- secθ

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Probability of an outcome if coin is tossed 3 times. What is the probabilty atleast one head is obtained? 1 point

- ○ 1/8
- ○ 7/8
- ○ 6/8
- ○ 2/8
- ○ None of the above

Which motor is best suitable for autonomous vehicle? 1 point

- ○ DC Brush motor with encoder
- ◉ DC brushless motor with encoder
- ○ Steppermotor
- ○ DC motor without encoder

Clear selection

Which metal has low melting point? 1 point

- (●) aluminium
- ( ) lead
- ( ) copper
- ( ) stainless steel

Clear selection

Transistor is made of 1 point

- ( ) Silver
- ( ) Gold
- ( ) copper
- (●) Germanium

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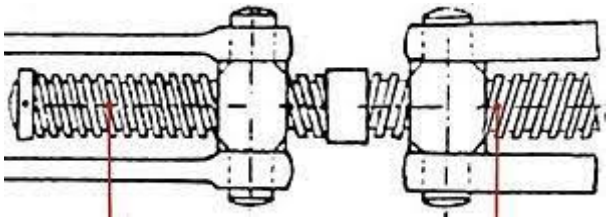
Clear selection

Name the joint 1 point



- turnbuckle joint
- Bolted joint
- Screw joint
- pin joint

What is the primary function of mechanism? 1 point

- Power absorption
- Power transmission

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- ○ Force transmission
- ◉ Motion transmission

Clear selection

Algorithm suitable for path planner 1 point

- ◉ A* Algorithm
- ○ Gradient descent algorithm
- ○ genetic algorithm
- ○ Random decision Tree

Clear selection

What is ROS(robotic operating system)? 1 point

- ◉ Operating System
- ○ Application software
- ○ Middleware
- ○ Programming language

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Clear selection

Use of MOSFET 1 point

- ○ Programming
- ◉ Switching
- ○ Proximity detection
- ○ none of the above

Clear selection

The reverse current in a diode is usually; 1 point

- ◉ Zero
- ○ In breakdown region
- ○ Very small
- ○ Very large

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Clear selection

What is the use of optocoupler 1 point

- ○ Lighting
- ◉ Isolation
- ○ Detection
- ○ Amplification

Clear selection

Avalanche in a diode occurs at 1 point

- ○ Barrier potential
- ○ Depletion Layer
- ○ Knee voltage
- ◉ Breakdown Voltage

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Clear selection

The voltage out of an ideal voltage source is: 1 point

- Internal resistant dependant
- Load resistant dependant
- constant
- Zero

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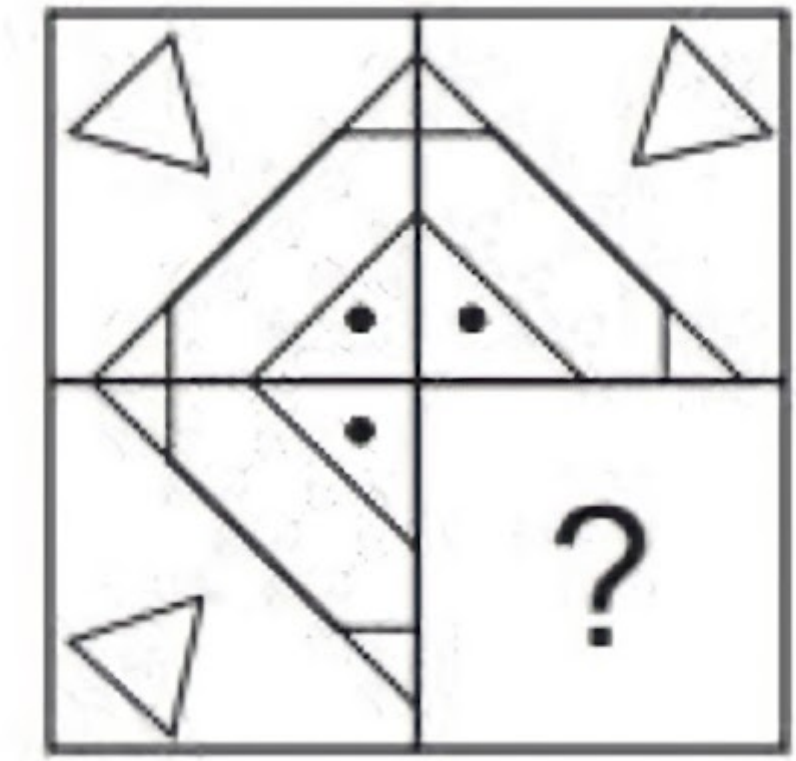
Image completion

1 point



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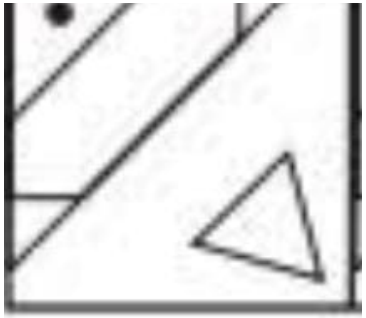
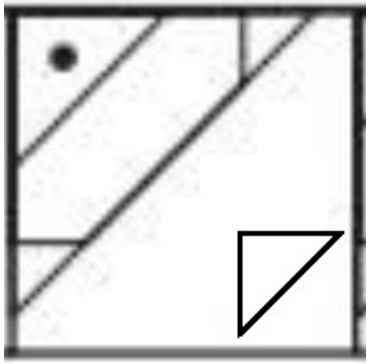


Option 1

2



3

4

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Select the output of the programme. * 0 points

question 5

```
numbers = [1, 8, 7, 13, 15, 67, 79, 8, 93, 910,6]
fg =(len(numbers)+4)/2
kl=(fg%2)
print(round(fg))
print(kl)
```

- ◯ 8, 1.5
- ◯ 7, 1
- ◯ 13, 3
- ◯ 9,1

Imagine a scenario where you are working on a project and you are met with a very tough problem on which you have only limited knowledge. How will you approach it and what actions will you take? 2 points

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Your answer

Submit

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Clear form

Never submit passwords through Google Forms.