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Instructions to Candidates

1. Please give the information requested in the boxes below.
2. Enter your name in the space provided to the right, fold the flap and seal down (using the label provided) to hide your name.
3. The answers must be legibly written. The Examiners can either ignore illegible script or have it typed and the expense of typing charged to the candidate.
4. Write your answers in ink.
5. Begin each answer on a fresh page. Do all rough work in the answer book and cross it through.
6. No part of this book is to be torn out; it must be handed in complete.
7. If more books than one are used, fasten them together using the tags available from the invigilator(s).
8. **Every book must be handed in. In no circumstances may answer books, used or unused, be taken out of the examination venue.**

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6	Seat Number	008
7	Number of Answer Books handed in	1

[illegible]

(Gweler yr ochr arall am y fersiwn Cymraeg)

20th Jan 2024
2025

Sec-A

→ question-1 [08]

B] Imagine a self-driving car powered by strong AI. How would its capabilities differ from those of current weak AI systems?

⇒ weak AI

- weak AI is known as narrow AI
- also it's known for Artificial narrow intelligence
- weak AI performed specific task only which is already fixed in program

→ There are some capabilities differ from those of current weak AI systems.

→ Security:-

→ sensors:-

→ saving time:-

→ notification Alert:-

→ Identify wide range of object:-

→ Security :-

Strong AI provide a strong security compare to weak AI. because in future there is a big mechanism is coming in AI's called Artificial super intelligence also. In future AI's provide a face lock in our vehicle so AI's good security.

→ Sensors :-

Strong AI provide a multiple sensor in their self-driving car to getting traffic, optics which is surrounding the vehicle. also AI's provide a 360° camera sensor.

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→ Saving time :-

Strong AI save the human time, because it have good GPS display in car and it's connecting with satellite and give it so many path to reach their destination with out any traffic and any optics. so human can easily reach their destination.

→ notification Alert :-

Strong AI using a face recognize to give a notification to human, without any permission. Some one else use the open

→ find object :- Strong AI find a objects which is surrounding the vehicle.

car and something else to give notification to the owner of vehicle.

⇒ also weak AI only performed one task at a time and strong AI performed multiple. ^{not true}

⇒ So strong AI provided many features compare to weak AI in self driving car.

⇒ Provide examples of complex driving situations where strong AI would offer significant advantages.

⇒ now we can't predict traffic which is coming in our path so strong AI would offer a good and strong technology and it gave a multiple path and their traffic in path and give us best path to reach their destination.

⇒ Strong AI provide a good sensors to save the accident like Automatic breaks, eye sensors, etc.

⇒ Human can't predict a environment while complex driving but strong AI give a good prediction for environment.

please write in full

04

Q-2

[02]

b)

Exploration :-

not

human

Exploration means
 Human find the solution (path)
 first time and It searching
 and explore a best solution.

Ex: Some one want's to go swansea
 to port talbot and he going
 first time so he finding
 a path and he explore
 a path how many path is
 avilable to reach their destination
 is called exploration.

Exploitation :-

Exploitation means
 human already know their
 path but it's ~~be~~ reached it's
 called exploitation.

Ex: I going to daily at my job
 so I already know my
 path to reach ~~there~~ my destination
 but I only check to in my
 path is not traffic, any optical
 other wise I find a new
 path to reach my destination.

Example
 Should be
 in the context of
 AVS.

Sec-B [0]

- e) cars perform better than traditional approaches in real-world AV scenarios.
- AV performed Automatic car so human can not drive the car in traditional approaches human have to ~~see~~ drive car.
 - AV have g good prediction about traffic, so human can easily reach their destination.
 - AV have good sensors to object detection.
 - Also ~~the~~ AV use facial recognize and voice Assistant, so human can easy ~~to drive~~ use car compare to traditional.
 - In future AV coming with strong AI with strong technology, so human can easily understand and easy to use.
 - AV is save the time.