Bild Ahmed Khan

Roll No. 20K-0183

Sec. B

QUESTION NO.01

- which objection still cary some veight? An are his rebutations valid

In his paper, Alan discusses 3 objects

- Theological Objection

- Flands in the sand Objection

- Mathematical Objection

* Theological Objection being that machines connot exibit intelligent behviour since they lack a soul

The acknowledged that the idea of only humons having a 'soul' was was
rooted in religion & philosophy but it was not not a valid objection to identify the intelligence of ameline . Turing believed & gave the example of galiles that the idea of intelligence E consciousress may have to be redefined with the passage of fine. He also argued Host if machines couldnot have souls in the same way as homens do they could still exibitintelligent Behvior. Alan provides similar arguments in response to the other 2 objections.

Verdict: With the recent advances in

AI & the developing of General Purpose

AI like Chal-GPT & Big Chal-Bot, we

can say that none of the objections carry

weight in contemporary lines & Alan buring.

was correct. and his reputations

are valid

- New Objections from developments since le wrote the paper:

Hebry Alkey Johe / af Author / Aller Color Bold / //

No, if anything the recent Badwiem in the field of AI has proven that machines can inclead exibit intelligent behavior & con take valional decisions despite not having human like ansciousness or soul.

The predicts that by 2000 --

Yes, but I would argue that Alan furing a was a bit over ophimistic Since it book around 22 more years then his prediction i.e. in 2022 when Chatapi (the first global scale general purpose A3) was relaced that has a very good chance of passing a 5-minute lest with an unskilled interrogsfor.

So yes, alon was 8 correct but his bining of prediction o was a but off off

QUESTION NO. 02

OI) Playing a cleant game of lable

Yes on Pec 10,2021 a group
of researchers were successfully
able to program a robot that
faught itself to play & ping pony
in just 90 minutes!

3) Playing a decent game of bridge

Yes, He to an article published in the guardian in March, 2022 an AZ program was able to beat eight world champions at bridge. 4) Viscoving & proving rew mathematical theorems.

No, AZ itselb connot disover Er

Prove new mathematical theorems.

Although AI techniques con pla

useful to prove mathematical

conjectures where very amount of data

available is huge and cannot be

studied via classical methods.

5) Writing an intentionally bung stong.

Yes, modern general purpose AI like -Chat GPT can write intentionally francy stories.

1) Pranslating spoken English to undu in real.

Time.

Phone

Yes, this is possible Google Pixel E.

Croogle Assistant can perform these tests

Using ML E AZ.

QUESTION NO. 03 Domain Chess game Page Description oi) Performance measure: Winning the cless gare Actuators Robotic aims comected with notors & a computer that-instructs them to nove pieces. Environment 03) Ches board, The AZ players pièces, opponent pièces etc.

Sensors:
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the board.

Capacifive fouch sensors
that allow the vobot to hold the
pieces of chees while moving them
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QUES720N NO. 04

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False

- i) I such an agent can be rational because it will try to make the best decision on the basis of the percept it recieves.

 Yes it may not be always correct, but it will be rational.
- 3) True, all the agents in a give leask environment can be rational, this is totally possible.
- Engent function con he similar ful it is not necessary nor is it always love.

 The pringret to an agent program depends on what kind of input it recious via its sensors. While agent function in mathematically maps those pexcepts on actions that can be taken.

- True, an agent function mathematically maps the percept recieved on actions which can be taken by the agent program.

 Thus every agent function can be implemented by a program/machine combination.
- 1) True, Yes it is possible provided

 the agent has the computing power

 a rationale to ravigate its way

 through both environments.