ME - 162

(Turn over)

2015

1. (a) Choose the correct answer of the following:
2×10 = 20

(Intelligence) (i) James Gosling (ii) Dennis Ritchie

(ii) Alan Turing (iv) Isaac Newton

Answer all questions.

Group - A

(Objective-type Questions)

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. Answer from both the Groups as directed.
(e) The Artificial Intelligence is concerned with designing intelligent computer systems that exhibit intelligent characteristics expressed in AI. It is a combination of data structures and interpretive procedures.

(d) The approach uses the knowledge of mathematics and engineering. By top-down, bottom-up, and step-by-step approaches. The Performance Knowledge is required.

(c) We also use knowledge about what we know. We use our own performance and cognitive processes. In other words, what we know about

(b) Meta-Knowledge

(a) We refer to it as "cognitive level".

(9) The goals of AI systems can be described in terms of cognitive tasks like:

(v) Meta-Knowledge

(iv) Performace Knowledge

(iii) Standard Knowledge

(ii) Performance Knowledge

(i) Specific Knowledge

(ii) Specific Knowledge

(iii) General Knowledge

(v) Statistical analysis

(iv) Human brain

(iii) Human behavior

(ii) Functional behavior

(i) By

Answering questions

Recognizing objects
What is an artificial intelligence network?
What are the various areas where artificial intelligence can be used?
What is an artificial intelligence network?
What is an agent in artificial intelligence?

2. (a) What is an artificial intelligence network?
(b) What is an agent in artificial intelligence?

Is it true or false? A) True, B) False.

Select all the above.
- Manipulating robotic devices
- Exploratory 'robots'
- AI is used in diverse fields like space
- AI is used for military purposes
- Knowledge retrieval
- Knowledge acquisition
- Knowledge system
- Common system
- Communication system

State whether the following is true or false:
- AI is used in diverse fields like space
- AI is used for military purposes
- Knowledge retrieval
- Knowledge acquisition
- Knowledge system
- Common system
- Communication system

Answer any four questions of the following:

Group - B
- Meta-level reasoning
- Reasoning
- Knowledge retrieval
- Knowledge acquisition
- Complex way
- Involves relating something new with what we already know in a psychologically valid way.
Concl.

7. (a) What is Bayesian Network, what is the role and its

7. (a) In top-down inductive learning methods

7. (a) Bayesian networks are available? What are

7. (a) What is the relationship between a node and its

7. (a) Bayesian networks, what is the

7. (a) What is the role of Bayesian networks in

7. (a) What is the role of Bayesian networks in

6. (a) In Artificial Intelligence, what is it used for?

6. (a) The Bayes Rule is ?

6. (a) For building a Bayesian model, how many terms

5. (a) In Artificial Intelligence, what is the difference between breadth-first

5. (a) What is the difference between Breadth-first

5. (a) What is Artificial Intelligence, what is it used for?

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4. (a) What is a Heuristic function?

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