

M. SC. (Computer Science) SEM – III (Choice Based Credit & Grade System) : WINTER - 2018

SUBJECT: ARTIFICIAL INTELLIGENCE

Day: Friday
Date: 19/10/2018

W-2018-1052

Time: 03.00 PM TO 06.00 PM
Max. Marks: 60

N.B:

- 1) All questions are **COMPULSORY**.
 - 2) Figure to the right indicates full marks.
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Q.1 What do you mean by Intelligent system? Explain in detail. **(15)**

OR

Explain knowledge engineering in detail. Describe properties of good and bad knowledge base.

Q.2 A) Answer **ANY ONE** of the following: **(08)**

- i) What is conditional planning? Explain.
- ii) Describe learning decision tree with example.

OR

B) Answer **ANY ONE** of the following: **(07)**

- i) Elaborate expert system shells in detail.
- ii) Write a note on perception.

Q.3 Answer **ANY THREE** of the following: **(15)**

- a) Explain inference in belief networks.
- b) Describe architecture of multilayer feed forward network.
- c) What is formal grammar for a subset of English?
- d) Explain in detail reasoning logic.
- e) What is backward chaining? Explain.

Q.4 Write short notes on **ANY THREE** of the following: **(15)**

- a) Natural language processing
- b) Knowledge acquisition
- c) Inductive learning
- d) Interface rules involving quantifiers
- e) Distributed reasoning

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