



Reg. No. :

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Question Paper Code : 40915

B.E./B.Tech. DEGREE EXAMINATION, APRIL /MAY 2018

Fifth/Sixth Semester

Computer Science and Engineering

CS 6659 – ARTIFICIAL INTELLIGENCE

(Common to Electronics and Instrumentation Engineering, Instrumentation and Control Engineering, Information Technology)
(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. Will Breadth-First Search always find the minimal solution. Why ?
2. What is a monotonic production system ?
3. Write the following in a predicate logic : For all x and y , if x is a parent of y then y is a child of x .
4. List any three methods to select an initial structure knowledge representation.
5. Given that $P(A) = 0.3$, $P(A|B) = 0.4$ and $P(B) = 0.5$, compute $P(B|A)$.
6. How does forward chaining differs from backward chaining ?
7. Define machine learning.
8. When is a *why explanation* better than a *how explanation* ?
9. What are the common mechanisms supported in an expert system shell ?
10. List the three activities supported by the programs that interact with domain experts to extract expert knowledge.