

CS/MCA(N)/ODD/SEM-3/MCA-303/2019-20

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Paper Code : MCA-303

PUID : 03151 (To be mentioned in the main answer script)

INTELLIGENT SYSTEMS

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP - A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for any *ten* of the following : 10 x 1 = 10

- i) Which one is the blind search ?
 - a) DFS
 - b) Best first search
 - c) A*search
 - d) A*
- ii) Which is not heuristic search ?
 - a) Constraint satisfaction search
 - b) Depth-first search
 - c) Simulated annealing
 - d) Hill-climbing.

- iii) Which of the following is tautology ?
 - a) $p \vee q \rightarrow p$
 - b) $p \wedge q \rightarrow p$
 - c) $p \rightarrow q$
 - d) none of these.
- iv) The forward reasoning in problems are generally represented by
 - a) OR graph
 - b) AND graph
 - c) AND-OR graph
 - d) none of these.
- v) Skolem function is used in
 - a) unification algorithm
 - b) natural deduction
 - c) conversion to clausal form
 - d) none of these.
- vi) Which is not a pure AI game ?
 - a) Ludo
 - b) Snakes and Ladders
 - c) Tic-tac-toe
 - d) Chess.
- vii) Which of the following is there in Prolog ?
 - a) Existential quantifier
 - b) Universal quantifier
 - c) Conjunction
 - d) Disjunction.
- viii) The time complexity of breadth first search is (symbols have their usual meaning)
 - a) $O(bd)$
 - b) $O(ed)$
 - c) $O(eb)$
 - d) $O(db)$.
- ix) Frame is a collection of
 - a) Slots
 - b) Filler
 - c) Resolution
 - d) Knowledge.
- x) There are no existential quantifiers in
 - a) PCNF
 - b) SSF
 - c) WFF
 - d) FOPL.

