Artificial intelligence

| 1. Artificial Intelligence (AI) is one of the newest disciplines, formally initiated in when the name was coined. Ans . 1956 |
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| 2. AI is the part of computer science concerned with designing computer systems. Ans . intelligent |
| 3 are used regularly in manufacturing. Ans. Robots |
| 4. Expert systems are not used regularly in finance, medicine. Ans . False |
| 5. During 1940s and 1950s, Norbert Wiener, coined the term Ans. Cybernetics |
| 6. In late, Newell and Simon developed The Logic Theorist, considered by many to be the first AI program. Ans. 1955 |
| 7. In the first computer-controlled autonomous vehicle, the Stanford Cart, is built. Ans . 1979 |
| 8. The European Common Market countries have jointly initiated a separate cooperative plan named the program. Ans. ESPRIT |
| 9. ALV stands for Ans. Autonomous Land Vehicle |
| 10. Which consortium was formed to develop advanced technologies that apply AI techniques? Ans . Microelectronics and Computer Technology Corporation (MCC) |
| 11. Minsky (1985) in his book provides a long and formidable list of attributes of intelligence. Ans . The Society of Mind |
| 12. The principle of AI is the physical symbol system hypothesis. Ans . second |
| 13. The principle is also used in language processing where words can have many meanings. Ans . fourth |
| 14. What is the fourth principle of AI? Ans. search compensates for lack of knowledge |
| 15 is perhaps one area which has been studied continuously since the birth of artificial intelligence in 1956. Ans . Chess |
| 16 is using an Injection Molding Advisor to diagnose faults and suggest repairs for a plastic injection molding mechanisms. Ans. Kodak |

| 17. Successful demonstrations in vision from 1965 to 1975 were limited to problems in which such as shadows, highlights, and occlusions were not too troublesome. Ans. 3-D phenomena |
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| 18. The is a self-contained laboratory vehicle for research in autonomous outdoor navigation. Ans . Navlab |
| 19 are the sequence of events that occur. Ans. Scenes |
| 20. Which study shows that the number of deployed expert systems increased from 50 in 1987 to 1400 in 1988? Ans . Gartner Study |
| 21. State space search is a process used in the field of in which successive configurations or states of ar instance are considered, with the goal of finding a goal state with a desired property. Ans. Artificial intelligence (AI) |
| 22. State space search used in AI is same as traditional computer science search methods. (State True or False) Ans . False |
| 23 are good representations for board games such as Tic-Tac-Toe. Ans. State spaces |
| 24. A is a computer program typically used to provide some form of artificial intelligence, which consists primarily of a set of rules about behavior. Ans. Production system (or production rule system) |
| 25 searches are performed by diving downward into a tree as quickly as possible. Ans . Depth-first |
| 26. Heuristics is a rule of thumb or judgmental technique that leads to a solution some of the time but provides no guarantee of success. (State True or False) Ans. True |
| 27. What is the time complexity of Depth-First search? Ans . O(bd). |
| 28. Generate-and-test, like depth-first search, requires that solutions be generated for testing. Ans . complete |
| 29. Understanding natural language often requires knowledge of typical Ans. sequences |
| 30 performs structure elucidation in organic chemistry based on data from a mass spectrometer Ans . Dendral |
| 31. Knowledge representation is an area of whose fundamental goal is to represent knowledge in a manner that facilitates inferencing from knowledge. Ans. Artificial intelligence |
| 32. We usually define the representation in terms of that can be manipulated by programs. Ans. Symbols |

| Ans. Retrieval |
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| 34. In the formal computer knowledge representation languages and systems arose. Ans . 1980s |
| 35 is accumulated knowledge about the world. Ans. Long-term Knowledge |
| 36. The collection of long-term knowledge is often called a Ans. knowledge base |
| 37 is the ability to represent the required knowledge. Ans. Representational Adequacy |
| 38. The simplest way of storing facts is to use a method where each fact about a set of objects is set out systematically in columns. Ans. Relational |
| 39. What represents knowledge as formal logic? Ans . Inferential knowledge |
| 40. Sometimes values of attributes are specified explicitly when a base is created. Ans . Knowledge |
| 41. Separate levels of understanding require different levels of Ans. Primitives |
| 42. Choosing the Granularity of Representation Primitives are fundamental concepts such as holding, seeing. (State True or False) Ans. True |
| 43. FOPL stands for Ans. First Order Predicate Logic |
| 44 is a variant of generate-and-test in which feedback from the test procedure is used to help the generator decide which direction to move in the search space. Ans. Hill climbing |
| 45. What is annealing schedule? Ans. Annealing schedule is the rate at which the system is cooled. |
| 46. Best First Search is a combination of searches. Ans. Depth first and breadth first |
| 47 is a priority queue of nodes that have been evaluated by the heuristic function but which have not yet been expanded into successors. Ans. OPEN |
| 48 will always find an optimal path to a goal if the heuristic function is admissible. Ans . A* |

| 49 logic deals with the determination of the truth of a sentence. Ans. Propositional |
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| 50. A is a relation in which there is only one value for a given input. Ans. Function |
| 51. The notation $\alpha \to \beta$ says that β can be derived from α by Ans . Inference. |
| 52. An inference rule is sound if the conclusion is true in all cases in which the are true. Ans . Premises |
| 53. A clause is one in which no variables occur in the expression. Ans. Ground |
| 54 is the process of removing existential quantifiers by elimination. Ans. Skolemization |
| 55 is a syntactic inference procedure which, when applied to a set of clauses, determines if the set is unsatisfiable. Ans. Resolution |
| 56 algorithm is a straightforward recursion procedure. Ans. Unification |
| 57. In creating a, it is essential first to identify all relevant objects which will play some role in the anticipated inferences. Ans. Knowledge base |
| 58. In propositional logic, it is easy to determine that two literals cannot both be true at the same time. (State True or False) Ans. True |
| 59. Languages with precisely defined syntax and semantics are called Ans. Logics |
| 60 are elementary atomic sentences. Ans. Propositions |
| 61. An for a sentence or group of sentences is an assignment of a truth value to each propositional symbol. Ans . Interpretation |
| 62. Whenever a thought occurs to an agent, an actor may act upon it. What is this called? Ans. REASON causation |
| 63. What is the process of turning a predicate into an object in a knowledge representation system called? Ans . reification |
| 64 Semantic Networks is an extension to Semantic nets that overcome a few problems or extend their expression of knowledge. Ans. Partitioned |

| Ans. frame |
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| 66. An object has a particular attribute if it has that attribute itself, or if it is an instance of a class that has that attribute. (State True or False) Ans. True |
| 67. The indicates the number of slots that an object has, and the name of each slot. Ans . class |
| 68. A is a special class whose elements are themselves classes. Ans. metaclass |
| 69. One way to determine the equivalence of two sentences is by using Ans. truth tables |
| 70 networks are an alternative to predicate logic as a form of knowledge representation. Ans . Semantic |
| 71. Conceptual Dependency (CD) is a content theory of how to represent simple sentences and was created by Ans . Roger Schank |
| 72 refers to a transfer of possession - the abstract transfer of possession from one person to another, as in a give or a buy. Ans. ATRANS |
| 73 frequently uses as an instrumental action. Ans. MBUILD, ATTEND |
| 74. What refers to the application of force to an object? Ans. PROPEL |
| 75 and are two primary flavors of conceptual-level relations. Ans. CAUSE, BI-CAUSE |
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