



ADAMAS UNIVERSITY
END-SEMESTER EXAMINATION: JULY 2020

Name of the Program: BCA

Semester: VI

Stream: CSE

PAPER TITLE: INTRODUCTION TO ARTIFICIAL INTELLIGENCE. PAPER CODE: ECS33102

Maximum Marks: 40

Time duration: 3 Hours

Total No of questions: 08

Total No of Pages: 01

Instruction to the Candidate:

1. At top sheet, clearly mention Name, Univ. Roll No., Enrolment No., Paper Name & Code, Date of Exam.
 2. All parts of a Question should be answered consecutively. Each Answer should start from a fresh page.
 3. Assumptions made if any, should be stated clearly at the beginning of your answer.
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Answer all the Groups

Group A

Answer all the questions of the following

5 × 1 = 5

1. a) In Artificial Intelligence, BFS denotes _____
b) In Artificial Intelligence, DFS denotes _____
c) In Artificial Intelligence, FOL stands for _____
d) In Artificial Intelligence, CNF stands for _____
e) Resolution techniques applies _____ to prove a theorem.

GROUP –B

(Short Answer Type Questions)

Answer *any three* of the following

3 × 5 = 15

2. Define Artificial Intelligence. Mention its significance.
3. Discuss the dimensions of Artificial Intelligence in details.
4. Discuss the role of Agents in Artificial Intelligence.
5. Explain Unification technique in details.

GROUP –C

(Long Answer Type Questions)

Answer *any two* of the following

2 × 10 = 20

6. Explain Water Jug Problem with suitable diagram and pseudocode for each step.
 7. Explain Traveling Salesman Problem with suitable diagram.
 8. Discuss the importance of Knowledge, Experience, Prediction and Decision Making in Artificial Intelligence.
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ADAMAS UNIVERSITY
END-SEMESTER EXAMINATION (JULY 2020)

Name of the Program: BCA/MCA
Course Name: Basics of OB
Maximum Marks: 40
Total No of Questions: 14

Semester: VI
Course Code: HPS44101
Time Duration: 3 Hrs.
Total No of Pages: 02

(Answer in your own words as far as practicable based on conceptual understanding)

Section A - Answer any 5 out of 7 [2 Marks x 5 Nos. = 10 Marks]

- Ques. 1: What do you understand by the term 'Organizational Behaviour'?
- Ques. 2: Comment on the relation between employee behaviour and organizational effectiveness.
- Ques. 3: How does interpersonal relationship influence team performance?
- Ques. 4: What is Self-actualization? Give example.
- Ques. 5: What is the difference between Group and Team?
- Ques. 6: Is there any link between Perception and Attitude? Comment.
- Ques. 7: 'Perception is strongly influenced by the perceiver, the perceived and the situation.' Elaborate.

Section B – Answer any 4 out of 6 [5 Marks x 4 Nos. = 20 Marks]

- Ques. 8: Discuss how the subjects of Psychology, Social Psychology and Sociology contribute to the study of Organizational Behaviour.
- Ques. 9: Recall the experiences of your life to identify the factors that have shaped your Personality.
- Ques. 10: Compare Maslow's Need Hierarchy Model of motivation with Herzberg's Two Factor Theory of motivation.
- Ques. 11: How is JOHARI Window relevant to interpersonal relationship?
- Ques. 12: Discuss the problems that may arise in the various phases of Group Development.
- Ques. 13: Discuss the major factors that influence individual behavior in general.

Section C – Compulsory [5+5=10 Marks]

Ques. 14: More Than a Paycheck

Lakhan Gokhale was a trainer for a large builder of homes. Gokhale had been hired fresh from graduate school with a master's degree in English. At first, the company put him to write and

revise company brochures and help in important correspondence at the senior level. Soon senior management officials noticed how well Gokhale worked with executives on their writing, and also made them feel more confident about it. The company moved Gokhale into its prestigious training department. The company's trainers worked with thousands of supervisors, managers, and executives, helping them learn everything from new computer languages to time management skills to how to get the most out of the workers on the plant floor, many of whom were unmotivated high school dropouts. Soon Gokhale was spending all his time giving short seminars on executive writing as well as coaching his students to perfect their memos and letters.

Gokhale's supervisor, Mira Aiyer knew that Gokhale was getting more money than many executives who had been with the company three times as long. Yet in her biweekly meetings with him, she could tell that he wasn't happy. When Aiyer asked him about it, Gokhale replied that he was in a bit of a rut. He had to keep saying the same things over and over in his seminars, and business memos weren't as interesting as the literature he had been trained on. But then, after trailing off for a moment, he blurted out, "They don't need me!" Since the memos filtering down through the company were now flawlessly polished, and the annual report was 20 percent shorter but said everything it needed to, Gokhale's desire to be needed was not fulfilled.

The next week, Gokhale came to Aiyer with a proposal: What if he started holding classes for some of the floor workers, many of whom had no future within or outside the company because many could write nothing but their own names? Aiyer took the idea to her superiors. They told her that they wouldn't oppose it, but Gokhale couldn't possibly keep drawing such a high salary if he worked with people whose contribution to the company was compensated at minimum wage. Gokhale agreed to a reduced salary and began offering English classes on the factory floor. At first only two or three workers showed up. Gokhale believed that they only wanted an excuse to get away from work. But gradually word got around that Gokhale was serious about what he was doing and didn't treat the workers like kids in a remedial class.

At the end of the year, Gokhale got a bonus from the vice president in charge of production. Although Gokhale's course took workers off the job for a couple of hours a week, productivity had actually improved since his course began, employee turnover had dropped, and for the first time in over a year, some of the floor workers had begun to apply for supervisory positions. Gokhale was pleased with the bonus, but when Aiyer saw him grinning as he walked around the building, she knew he wasn't thinking about his bank account.

Case Questions:

- A) What need theories would explain why Lakhan Gokhale was unhappy despite his high income?
- B) What do you think might have led to improvement in productivity and fall in employee turnover after Gokhale started offering English classes to the floor workers?