



# GIFT UNIVERSITY

G U J R A N W A L A

(Chartered by the Govt. of the Punjab, Recognized by HEC)

EXA-115

**Department of Computer Science**

**Artificial Intelligence Lab (CS-465)**

**Mid Term Examination**

**Fall-2021**

**Instructor: Hafiz Ahmad Farooq**

**Time: 01 Hour**

**Total Marks: 35**

**Version B**

**Candidate Name:** \_\_\_\_\_ **Candidate Roll No:** \_\_\_\_\_

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**Instructions to Candidates:**

- Candidates are required to sit on the seats assigned to them by the invigilators.
  - Do not open this question paper until you have been told to do so by the Invigilator.
  - Please fill in exam specific details in space provided (both Question Paper and Answer Sheet).
  - This is a Closed Book Exam. "Closed book examinations" refer to examinations where the candidate may not take into the examination room any study materials (including textbooks, study guides, lecture notes, printed notes from web pages, hand written notes and any audio/visual aid).
  - **There are 04 questions. Attempt all questions.**
  - Do not write anything on question paper except Name and Roll Number.
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**Question 1:****(05 Marks)**

You are requested to write a code to ask name, age and city from the user. If user is above 18, print "You are eligible for vote casting" otherwise print "You are under age". Your file name should be **"Q1-191800012.py"**

**Question 2:****(05 Marks)**

You are requested to write a code of numpy to create a given 4x4 – matrix and then print its order and middle extraction form. Your file name should be **"Q2-191800012.py"**

Given Matrix

Middle Extraction

```
[[31  32  33  34
 35  36  37  38
 49  40  41  42
 43  44  45  46]]
```

```
[[36  37
 40  41]]
```

**Question 3:****(10 Marks)**

You have a class of **Car.py**, For a start, some code is already written for you. **DO NOT CHANGE ANY CODE THAT IS ALREADY WRITTEN.** carefully read the comments. Complete the required code for questions inside that file. Rename this file to **"Car-19180012.py"**

**Question 4:****(15 Marks)**

You have data of car's sales in excel file as **"car\_sales.csv"**. You are requested to show the data of only people above 30 years old and they have sold more than 5 cars. Your file name should be **"Q4-191800012.py"**

**End of Question Paper.**