Part -a

URL of the webpage: https://archive.ics.uci.edu/ml/machine-learning-databases/00529/

URL for the site:

https://archive.ics.uci.edu/ml/datasets/Early+stage+diabetes+risk+prediction+dataset.

Part -b

Brief description of data set:

- --The data set is used for the early-stage diabetes risk prediction, it is one CSV file containing all the information
 - -- Objects: we have a data set of size and length (520, 17)

--Attributes: We have 17 attributes for the above data set. which is a combination of different types namely Gender(objects), age(Integer), others are binary either yes or no, and in the last column name class it is positive/negative (objects)

Please find the below information related to the given dataset, which defines how many objects and attributes are present in the dataset and their types,

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RangeIndex: 520 entries, 0 to 519			
Data columns (total 17 columns):			
#	Column	Non-Null Count	Dtype
0	Age	520 non-null	int64
1	Gender	520 non-null	object
2	Polyuria	520 non-null	object
3	Polydipsia	520 non-null	object
4	sudden weight loss	520 non-null	object
5	weakness	520 non-null	object
6	Polyphagia	520 non-null	object
7	Genital thrush	520 non-null	object
8	visual blurring	520 non-null	object
9	Itching	520 non-null	object
10	Irritability	520 non-null	object
11	delayed healing	520 non-null	object
12	partial paresis	520 non-null	object
13	muscle stiffness	520 non-null	object
14	Alopecia	520 non-null	object
15	Obesity	520 non-null	object
16	class	520 non-null	object
<pre>dtypes: int64(1), object(16)</pre>			

Part -c:

- Early diabetes identification is usually preferred for a clinically significant result due to the existence of a relatively extended asymptomatic phase.
- From the data set we have based on the symptoms like sudden weight loss, Irritability, obesity, etc a person can be classified whether he has diabetes or not
- Only by careful evaluation of both common and uncommon symptoms, which can be identified at various stages from disease onset to diagnosis, is an early diagnosis of diabetes possible.

Part -D:-

- This knowledge is quite useful, if in the future if a doctor gets a patient and he has some
 of the symptoms lets say 6 symptoms mentioned in the table, then he has a high risk of
 getting diabetes or he is already suffering from that
- The applications of data-mining techniques in the selected articles were useful for extracting valuable knowledge and generating new hypothesis for further scientific research/experimentation and improving health care for diabetes patients.
- The results could be used for both scientific research and real-life practice to improve the quality of health care for diabetes patients.