Course No: ACCE4319 Instructor Name: Dr. Ahmed Al-Afifi **Course:** Accounting information system **Student No.:** Date: 25/11/2017 **Student Name:** 2nd Midterm Exam **College Name: Business and Finance** No. of Questions: (3) first Semester Dep. / Specialist: Accounting-English **Time: 1hours** 2017/2018 **Using Calculator (Yes) Using Dictionary (No) Total Grade: 30 Question One: Multiple Choose:** (15 M)1- It is database attribute, or combination of attributes, that uniquely identifies each row in a table. a) Foreign key. **b**) Primary key. d) Rational database. c) Tuple. 2- Which of the following would not be found in a data dictionary entry for a data item? a) Records containing a data item. **b)** The physical location of the data. c) The field (data) type. **d)** The source of the data item. 3- The DBMS language that is used to build, initialize, and describe logical views for users is called the: a) DBA. **b**) DOL. c) DDL. d) DML. acts as an interface between the database and the various 4- The application programs. a) Database system. **b**) Database management system. c) Data warehouse. **d)** Database administrator. 5- The potential inconsistency problem could arise when there are multiple occurrences of a data item in a database. This is called the a) Update anomaly. **b)** Inconsistency anomaly. c) Insert anomaly. **d**) Integrity anomaly. 6- The logical structure of a database is described by the a) Dictionary. **b**) Internal level. c) Subschema. d) Schema. 7- DBMS uses a language to retrieve, sort, order, and present subsets in a database. This language is known as a) Data query language (DQL). **b)** Report writer. c) Data definition language (DDL). **d**) Data manipulation language (DML). 8- In a document flowchart of a manual payroll processing system, "update employee file" will be shown by a(n) _____ symbol, and "prepare payroll check" will be shown by a(n) _____ symbol.

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b) Input; manual operation.

d) Manual operation; manual operation.

a) Input; output.

c) Manual operation; output.

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Using Dictionary (No)

9- Which statement below is false regarding the basic requirements of the relational data model?

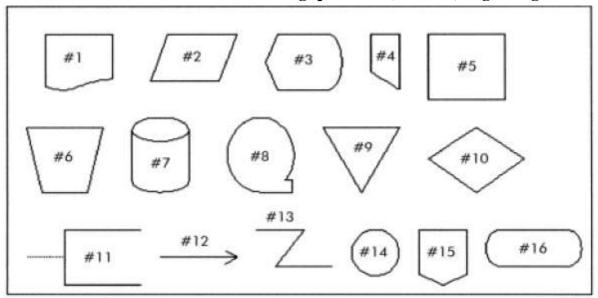
- a) Every column in a row must be single-valued.
- **b)** All non-key attributes in a table should describe a characteristic about the object identified by the primary key.
- **c**) Foreign keys, if not null, must have values that correspond to the value of a primary key in another table.
- d) Primary keys can be null.
- 10-Creating an empty table in a relational database requires use of the ______, and filling that table requires the use of _____.
 - a) DDL; DQL.

b) DML; DDA.

c) DQL; SQL.

d) DDL; DML.

Use the chart below to answer the following questions (11 to 15) regarding flow chart



symbols.

11-Which symbol would be used in a flowchart to represent a decision?

a) # 16

b) #15

c) # 10

d) # 11

12-Which symbol would be used in a flowchart to represent an invoice sent to a customer?

a) #2

b) #7

c) #1

d) none of them.

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15-Symbol #9 would be used in a flowchart to:

- a) Represent the display of a report on a computer screen.
- **b)** Represent employee time cards sent by department managers to the payroll department.
- c) Represent a file of paper documents.
- \mathbf{d}) $\mathbf{a} + \mathbf{c}$

Question Two: (5 M)

1. Identify five important guidelines for preparing a flowchart.

2. List the four languages used within a DBMS.

Question three: (10 M)

The local college requires that each student complete an online registration request form. The system checks the accounts receivable subsystem to ensure that no fees are owed.

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Next, for each course, the system checks the student transcript to ensure that he or she has completed the course prerequisites. Then the system checks class availability and if there is room adds the student's Social Security number to the class list.

The report back to the student shows the result of registration processing: If the student owes fees, a bill is sent and the registration is rejected.

If prerequisites for a course are not fulfilled, the student is notified and that course is not registered. If the class is full, the student request is annotated with "course closed."

If a student is accepted into a class, then the day, time, and room are shown next to the course number. Student fees and total tuition are computed and shown on the report.

Student fee data is interfaced to the accounts receivable subsystem. When registration is complete, course enrollment reports are prepared for the instructors.

Required: Prepare a flowchart to document this process.