

AGA KHAN UNIVERSITY EXAMINATION BOARD

HIGHER SECONDARY SCHOOL CERTIFICATE

CLASS XI

ALTERNATE TO PRACTICAL (ATP)

MODEL EXAMINATION PAPER 2021

Computer Science Paper III

Time: 25 minutes Marks: 15

INSTRUCTIONS

1. Read each question carefully.
2. Answer the questions on the separate answer sheet provided. DO NOT write your answers on the question paper.
3. There are 100 answer numbers on the answer sheet. Use answer numbers 1 to 15 only.
4. In each question, there are four choices A, B, C, D. Choose ONE. On the answer grid, black out the circle for your choice with a pencil as shown below.

Correct Way		Incorrect Ways	
1		1	
		2	
		3	
		4	

Candidate's Signature

5. If you want to change your answer, ERASE the first answer completely with a rubber, before blacking out a new circle.
6. DO NOT write anything in the answer grid. The computer only records what is in the circles.
7. You may use a scientific calculator if you wish.

Using given information to answer Q.1, Q.2 and Q.3.

Some records from a database table named as **Invoice** are shown below.

InvoiceID	OrderDate	TotalPrice	Salesperson
INV189	2/28/2019	1200	Jawad Ahmed
INV590	6/20/2019	480	Shabana Rauf
INV991	11/2/2019	1765	Ammar Amjad

Consider the given specifications of this table.

- The InvoiceID field is primary key and it should store up to 6 text characters. This field cannot be left empty.
- The OrderDate field should have date data type.
- The TotalPrice field should have numeric data type.
- The Salesperson field should store up to 50 text characters. This field cannot be left empty.

1. The SQL query to create this table is

CREATE TABLE Invoice (InvoiceID text(6) NOT NULL, OrderDate date, TotalPrice int, Salesperson text(50) NOT NULL, PRIMARY KEY (InvoiceID));	CREATE TABLE Invoice (InvoiceID text(6) NOT NULL, Salesperson text(50) NOT NULL, OrderDate date, TotalPrice int, PRIMARY KEY (InvoiceID));
A	B
CREATE TABLE Invoice (InvoiceID text NOT NULL, OrderDate date, TotalPrice int, Salesperson text NOT NULL, PRIMARY KEY (InvoiceID));	CREATE TABLE Invoice (InvoiceID text(6) NOT NULL, Salesperson text(50), OrderDate date, TotalPrice text(4), PRIMARY KEY (InvoiceID));
C	D

2. The record having InvoiceID = INV991 needs to be edited as follows:

- Change the Salesperson to Fakhar Jahan
- Change the Price to 1800

The SQL query to do these changes is

A	UPDATE Invoice SET (Salesperson = 'Fakhar Jahan' AND Price = 1800) WHERE InvoiceID = 'INV991';
B	UPDATE Invoice SET Salesperson = 'Fakhar Jahan' AND SET Price = 1800 WHERE InvoiceID = 'INV991';
C	UPDATE Invoice SET Salesperson = Fakhar Jahan, Price = 1800 WHERE InvoiceID = INV991;
D	UPDATE Invoice SET Salesperson = 'Fakhar Jahan', Price = 1800 WHERE InvoiceID = 'INV991';

3. The SQL query in MS Access to delete this table is

- A. Drop Table Invoice;
- B. Drop Invoice Table;
- C. Delete Table Invoice;
- D. Delete Invoice Table;

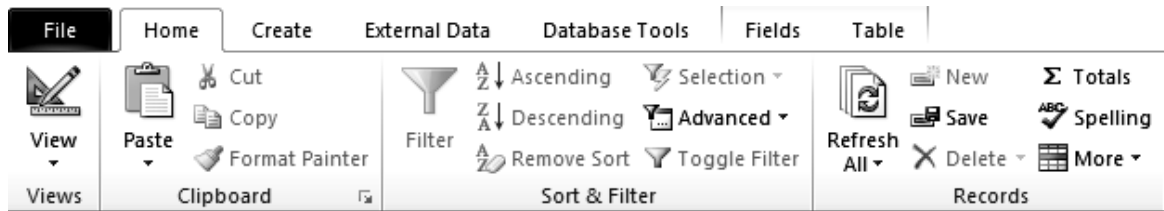
4. All of the following can be done using ALTER TABLE statement EXCEPT

- A. adding records in a table.
- B. adding column in a table.
- C. deleting column in a table.
- D. deleting constraints in a table.

5. All of the following can be done in the design view of the MS Access EXCEPT

- A. selecting the primary key.
- B. entering data for each record.
- C. applying data validation rules.
- D. assigning data types of to each field.

6. Consider the given image of MS Access database.



The menu that should be clicked to locate the option to create a relationship among tables is

- A. Table menu.
 - B. Create menu.
 - C. External Data menu.
 - D. Database Tools menu.
7. Fatima created a form using MS Access Form Wizard. She selected the following layout for the form.



The layout that she selected is

- A. Tabular.
- B. Justified.
- C. Datasheet.
- D. Columnar.

8. Consider the given data.

Ahmer
Aamir
Afnan
Asher

If ascending sort is applied on this data in MS Access, then the data would be arranged as

Asher Afnan Ahmer Aamir	Asher Ahmer Afnan Aamir
A	B
Aamir Ahmer Afnan Asher	Aamir Afnan Ahmer Asher
C	D

Use the given database table to answer Q.9, Q.10, Q.11 and Q.12.

Staff_ID	FirstName	LastName	Age	Salary
S200	Ali	Raza	36	45000
S201	Shumaila	Anjum	24	32000
S202	Marium	Khan	28	29000
S203	Farhan	Jamali	33	49000
S204	Shariq	Rafique	21	20000

9. Given is the result of a query applied in design view.

Staff	Query1
FirstName	LastName
Ali	Raza
Shumaila	Anjum
Farhan	Jamali
Shariq	Rafique

The query is

A	Field:	Staff_ID	FirstName	LastName	Age	Salary
	Table:	Staff	Staff	Staff	Staff	Staff
	Sort:					
	Show:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Criteria:				> 30 And < 25	
B	Field:	Staff_ID	FirstName	LastName	Age	Salary
	Table:	Staff	Staff	Staff	Staff	Staff
	Sort:					
	Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Criteria:				> 30	
C	Field:	Staff_ID	FirstName	LastName	Age	Salary
	Table:	Staff	Staff	Staff	Staff	Staff
	Sort:					
	Show:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Criteria:				> 30	
D	Field:	Staff_ID	FirstName	LastName	Age	Salary
	Table:	Staff	Staff	Staff	Staff	Staff
	Sort:					
	Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Criteria:				< 30 And > 25	

10. The given query is applied on the table.

Field:	Staff_ID	FirstName	LastName	Age	Salary
Table:	Staff	Staff	Staff	Staff	Staff
Update To:				37	
Criteria:				< 33	> 20000
or:					

Which of the following options shows CORRECT Staff_ID whose records is/ are updated after applying this query?

- A. S200, S201, S202, S203 and S204
 B. 201, 202 and 203
 C. S201 and S202
 D. S200
11. Consider the given image showing a query in design view applied on this table.

Field:	Staff_ID	FirstName	LastName	Age	Salary
Table:	Staff	Staff	Staff	Staff	Staff
Sort:					
Show:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Criteria:					> 20000 And < 30000
or:					

The option that shows records fetched by this query is

A	<table><tr><th>FirstName</th><th>LastName</th><th>Age</th></tr><tr><td>Ali</td><td>Raza</td><td>36</td></tr><tr><td>Shumaila</td><td>Anjum</td><td>24</td></tr><tr><td>Marium</td><td>Khan</td><td>28</td></tr><tr><td>Farhan</td><td>Jamali</td><td>33</td></tr><tr><td>Shariq</td><td>Rafique</td><td>21</td></tr></table>	FirstName	LastName	Age	Ali	Raza	36	Shumaila	Anjum	24	Marium	Khan	28	Farhan	Jamali	33	Shariq	Rafique	21
FirstName	LastName	Age																	
Ali	Raza	36																	
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Shariq	Rafique	21																	
B	<table><tr><th>FirstName</th><th>LastName</th><th>Salary</th></tr><tr><td>Ali</td><td>Raza</td><td>45000</td></tr><tr><td>Shumaila</td><td>Anjum</td><td>32000</td></tr><tr><td>Farhan</td><td>Jamali</td><td>49000</td></tr></table>	FirstName	LastName	Salary	Ali	Raza	45000	Shumaila	Anjum	32000	Farhan	Jamali	49000						
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FirstName	LastName	Age																	
Marium	Khan	28																	
Shariq	Rafique	21																	
D	<table><tr><th>FirstName</th><th>LastName</th><th>Age</th></tr><tr><td>Marium</td><td>Khan</td><td>28</td></tr></table>	FirstName	LastName	Age	Marium	Khan	28												
FirstName	LastName	Age																	
Marium	Khan	28																	

PLEASE TURN OVER THE PAGE

12. Consider the given image showing the delete query in design view that is applied on this table.

Field:	Staff_ID	FirstName	LastName	Age	Salary
Table:	Staff	Staff	Staff	Staff	Staff
Delete:	Where	Where	Where	Where	Where
Criteria:				<30	
or:					<40000

The number of records that will be deleted by this query is

- A. Two.
 - B. Three.
 - C. Four.
 - D. Five.
13. The CORRECT syntax of SQL query to select all the fields in a table is
- A. Select * From Table_Name;
 - B. Select All From Table_Name;
 - C. Select * Table From Table_Name;
 - D. Select Complete Table From Table_Name;
14. Omar is getting an error message while trying to apply a relationship on two tables in MS Access. A possible reasons is that
- A. both tables have different number of fields and same number of tuples.
 - B. both tables have different number of fields and different number of tuples.
 - C. the common fields in both tables on which relationship is to be applied have different names.
 - D. the common fields in both tables on which relationship is to be applied have different data types.
15. A database administrator wants that the user to input dates of year 2019 only in the field of a database table having date data type. The data validation condition he should apply is
- A. >=#01/01/2019# OR <=#12/31/2019#
 - B. >=#01/01/2019# OR <=#01/01/2020#
 - C. >=#01/01/2019# AND <=#01/01/2020#
 - D. >=#01/01/2019# AND <=#01/01/2020#

END OF PAPER

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