

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN.
OBJECTIVE KEY FOR INTERMEDIATE ANNUAL EXAMINATION, 2021'

Name of Subject: Computer Science Session: 2021 - 22

Q.Nos	Paper Code	Paper Code	Paper Code	Paper Code
1	4831	4833	4835	4837
1	B	D	B	A
2	A	C	D	B
3	B	A	C	D
4	D	B	A	C
5	C	A	B	A
6	A	B	A	B
7	C	A, C	C	C
8	D	A	A	C
9	C	D	D	A
10	C	C	A, C	D
11	A	D	A	A, C
12	D	C	D	A
13	A, C	C	C	D
14	A	A	D	C
15	D	D	C	D
16				
17				
18				
19				
20				

مرٹیکٹ بابت تصحیح سوالیہ پرچہ امارنگ Key

ہم نے مضمون CST پرچہ Theory گروپ انٹرمیڈیٹ پارٹ سیکنڈ سالانہ امتحان 2021ء کا سوالیہ پرچہ انشائیہ و معروضی (Subjective & Objective) کو بنظر عین چیک کر لیا ہے یہ پرچہ ALP Syllabus کے عین مطابق Set کیا گیا ہے۔ اس سوالیہ پرچہ میں کسی قسم کی کوئی غلطی نہ ہے۔ ہم نے سوالیہ پرچہ کا اردو اور انگریزی Version بھی چیک کر لیا ہے۔ یہ Version آپس میں مطابقت رکھتے ہیں۔ نیز اس پرچہ کی معروضی (MCQs) Key کی بابت تصدیق کی جاتی ہے کہ اس میں بھی کسی قسم کی کوئی غلطی نہ ہے۔ مزید یہ کہ ہم نے Key بنانے سے متعلق دفتر کی جانب سے تیار کردہ ہدایات وصول کر کے ان کا بغور مطالعہ کر لیا ہے اور ان کی روشنی میں Key بنائی ہے۔ نیز سب ایگزامینرز کیلئے تفصیلی مارکنگ ہدایات / مارکنگ سکیم / Rubrics بھی تیار کر دی گئی ہیں۔

Prepared & Checked By:

Dated: 16-7-21

S.#	Name	Designation	Institution	Mobile No	Signature
1	M. IQBAL LATIF	A/P	Govt. Degree College Shujah	0333 6116416	
2	MUBASHAR ALI	Principal	Govt. Associate College Sahiwal	0300 7340154	
3	Muhammed Ali	A/P	Govt. College of Science Multan	0333 6189403	
Re-Checked By					
1	M. IMRAN	A/P	Govt. Multan Associate College Multan	0301 7423032	
2					

16/07/21

تاریخ

INTERMEDIATE PART-II (12th CLASS)**COMPUTER SCIENCE PAPER-II**

TIME ALLOWED: 2.10 Hours

SUBJECTIVE

MAXIMUM MARKS: 60

NOTE: Write same question number and its part number on answer book, as given in the question paper.

SECTION-I

2. Answer briefly any Six parts from the following:

6 × 2 = 12

MS-ACCESS

- | | |
|--|---|
| (i) What do you mean by composite key? | (ii) Define End User. |
| (iii) Write the purpose of Modality. | (iv) Describe Project Planning. |
| (v) List advantages of MS-ACCESS. | (vi) How MS-ACCESS existing from Windows? |
| (vii) What are relationships? | (viii) Write two differences between relationship and join. |
| (ix) Define Tabular form. | |

3. Answer briefly any Six parts from the following:

6 × 2 = 12

C-LANGUAGE

- | | |
|--|---|
| (i) What are Syntax Errors? | (ii) What is #include Directive? Give an example. |
| (iii) Differentiate between Linker and Loader. | (iv) What are Logical operators? Name any two. |
| (v) What are Identifiers? | (vi) Write two rules for Naming Variables. |
| (vii) Find error: | (viii) Trace output: |
- ```

int x;
scanf ("%d", s x);
if (x % 2 = 0)
printf ("Even Number")

```
- (ix) Trace output:
- ```

int x = 1, y = 2, z = 3;
if ((x == y) || (y == z) || (z == 2))
printf ("Yes");
else
printf ("No");

```

4. Answer briefly any Six parts from the following:

6 × 2 = 12

C-LANGUAGE

- | | |
|--|--|
| (i) List any four escape character provided by C. | (ii) Write down the use of "getch" function. |
| (iii) Why is the ampersand (&) used in scanf function? | |
| (iv) Predict the output of the following code segment: | |
- ```

int n;
for (n = 1; n <= 12; n = n + 4)
printf ("%d", n);

```
- (v) Predict the output of the following code segment:
- ```

int x = 3;
while (x <= 12)
{
printf ("x is %d \n", x);
x = x + 2;
}

```
- (vi) Find the errors from the following code segment:
- ```

int x = 1;
while (x <= 6);
{
printf ("%d", x);
x ++;
}

```
- (vii) Define function. (viii) Compare local and global variable. (ix) Define Newline marker.

**SECTION-II**

NOTE: Attempt any one question.

8 × 1 = 8

**MS-ACCESS**

5. Define database model. Discuss different types of database models.
6. What is normalization? Explain three forms of normalization.

**SECTION-III**

NOTE: Attempt any two questions.

8 × 2 = 16

**C-LANGUAGE**

7. Define programming language. Describe the characteristics of high level programming languages.
8. Write the general form of if statement with multiple alternatives. Draw flow chart and explain its working?
9. Write a program that get starting and ending numbers then print counting in between these numbers using while loop.

## COMPUTER SCIENCE

## PAPER-II

TIME ALLOWED: 20 Minutes

OBJECTIVE

MAXIMUM MARKS: 15

**Note:** You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question. No credit will be awarded in case BUBBLES are not filled. Do not solve question on this sheet of OBJECTIVE PAPER.

Q.No.1

MS-ACCESS

- (1) SQL stands for:  
(A) Unstructured Language (B) Structured Query Language  
(C) Object Oriented Language (D) Software
- (2) Who is responsible to design, implement and maintain a databases?  
(A) Database administrator (B) End users (C) Application programmer (D) Web designer
- (3) An entity related to itself in an ERD Model refers to:  
(A) One-to-many relationship (B) Recursive relationship  
(C) Many-to-many relationship (D) One-to-one relationship
- (4) Different attributes in two different tables having same name are referred to as:  
(A) Synonym (B) Acronym (C) Mutually exclusive (D) Homonym
- (5) A database consists of various components called the:  
(A) Tool (B) Properties (C) Objects (D) Entities
- (6) In a relational database, a single piece of information is called:  
(A) Field (B) Record (C) Entity (D) Tuple

C-LANGUAGE

- (7) Every C program must have:  
(A) scanf function (B) getche function (C) main function (D) print function
- (8) Turbo C++ can compile:  
(A) Assembly program (B) C++ programs only (C) Machine program (D) C and C++ programs
- (9) Which of the following is a valid character constant?  
(A) "b" (B) a (C) '6' (D) =
- (10) Which of the following data type offers the highest precision?  
(A) float (B) long int (C) long double (D) unsigned long int
- (11) The escape sequence for new line:  
(A) \n (B) \t (C) \b (D) \f
- (12) The format specifier %c is used for  
(A) Integers (B) float (C) double (D) character
- (13) How many kinds of control structures are there to organize program instructions?  
(A) 3 (B) 2 (C) 4 (D) 5
- (14) Which of the following is a loop statement?  
(A) while (B) if (C) if-else (D) nested if
- (15) printf() is a:  
(A) local function (B) user defined function (C) keyword (D) built-in function

## COMPUTER SCIENCE

## PAPER-II

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(C) Many-to-many relationship (D) One-to-one relationship

C-LANGUAGE

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## COMPUTER SCIENCE

## PAPER-II

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Q.No.1

MS-ACCESS

- (1) An entity related to itself in an ERD Model refers to:
 

|                               |                                                             |
|-------------------------------|-------------------------------------------------------------|
| (A) One-to-many relationship  | <input checked="" type="radio"/> (B) Recursive relationship |
| (C) Many-to-many relationship | (D) One-to-one relationship                                 |
- (2) Different attributes in two different tables having same name are referred to as:
 

|             |             |                        |                                              |
|-------------|-------------|------------------------|----------------------------------------------|
| (A) Synonym | (B) Acronym | (C) Mutually exclusive | <input checked="" type="radio"/> (D) Homonym |
|-------------|-------------|------------------------|----------------------------------------------|
- (3) A database consists of various components called the:
 

|          |                |                                              |              |
|----------|----------------|----------------------------------------------|--------------|
| (A) Tool | (B) Properties | <input checked="" type="radio"/> (C) Objects | (D) Entities |
|----------|----------------|----------------------------------------------|--------------|
- (4) In a relational database, a single piece of information is called:
 

|                                            |            |            |           |
|--------------------------------------------|------------|------------|-----------|
| <input checked="" type="radio"/> (A) Field | (B) Record | (C) Entity | (D) Tuple |
|--------------------------------------------|------------|------------|-----------|
- (5) SQL stands for:
 

|                              |                                                                |
|------------------------------|----------------------------------------------------------------|
| (A) Unstructured Language    | <input checked="" type="radio"/> (B) Structured Query Language |
| (C) Object Oriented Language | (D) Software                                                   |
- (6) Who is responsible to design, implement and maintain a databases?
 

|                                                             |               |                            |                  |
|-------------------------------------------------------------|---------------|----------------------------|------------------|
| <input checked="" type="radio"/> (A) Database administrator | (B) End users | (C) Application programmer | (D) Web designer |
|-------------------------------------------------------------|---------------|----------------------------|------------------|

C-LANGUAGE

- (7) Which of the following data type offers the highest precision?
 

|           |              |                                                  |                       |
|-----------|--------------|--------------------------------------------------|-----------------------|
| (A) float | (B) long int | <input checked="" type="radio"/> (C) long double | (D) unsigned long int |
|-----------|--------------|--------------------------------------------------|-----------------------|
- (8) The escape sequence for new line:
 

|                                         |        |        |        |
|-----------------------------------------|--------|--------|--------|
| <input checked="" type="radio"/> (A) \n | (B) \t | (C) \b | (D) \f |
|-----------------------------------------|--------|--------|--------|
- (9) The format specifier % c is used for
 

|              |           |            |                                                |
|--------------|-----------|------------|------------------------------------------------|
| (A) Integers | (B) float | (C) double | <input checked="" type="radio"/> (D) character |
|--------------|-----------|------------|------------------------------------------------|
- (10) How many kinds of control structures are there to organize program instructions?
 

|                                        |       |                                        |       |
|----------------------------------------|-------|----------------------------------------|-------|
| <input checked="" type="radio"/> (A) 3 | (B) 2 | <input checked="" type="radio"/> (C) 4 | (D) 5 |
|----------------------------------------|-------|----------------------------------------|-------|
- (11) Which of the following is a loop statement?
 

|                                            |        |             |               |
|--------------------------------------------|--------|-------------|---------------|
| <input checked="" type="radio"/> (A) while | (B) if | (C) if-else | (D) nested if |
|--------------------------------------------|--------|-------------|---------------|
- (12) printf() is a:
 

|                    |                           |             |                                                        |
|--------------------|---------------------------|-------------|--------------------------------------------------------|
| (A) local function | (B) user defined function | (C) keyword | <input checked="" type="radio"/> (D) built-in function |
|--------------------|---------------------------|-------------|--------------------------------------------------------|
- (13) Every C program must have:
 

|                    |                    |                                                    |                    |
|--------------------|--------------------|----------------------------------------------------|--------------------|
| (A) scanf function | (B) getch function | <input checked="" type="radio"/> (C) main function | (D) print function |
|--------------------|--------------------|----------------------------------------------------|--------------------|
- (14) Turbo C++ can compile:
 

|                      |                       |                     |                                                         |
|----------------------|-----------------------|---------------------|---------------------------------------------------------|
| (A) Assembly program | (B) C++ programs only | (C) Machine program | <input checked="" type="radio"/> (D) C and C++ programs |
|----------------------|-----------------------|---------------------|---------------------------------------------------------|
- (15) Which of the following is a valid character constant?
 

|         |       |                                          |       |
|---------|-------|------------------------------------------|-------|
| (A) "b" | (B) a | <input checked="" type="radio"/> (C) '6' | (D) = |
|---------|-------|------------------------------------------|-------|

## COMPUTER SCIENCE

## PAPER-II

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