

**AGA KHAN UNIVERSITY EXAMINATION BOARD**

**SECONDARY SCHOOL CERTIFICATE**

**CLASS X**

**ALTERNATE TO PRACTICAL (ATP)**

**MODEL EXAMINATION PAPER 2021**

**Computer Science Paper III**

**Time: 20 minutes    Marks: 10**

**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 10 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 simple calculator if you wish.

Use the given program to answer Q.1, Q.2 and Q.3.

```
#include <stdio.h>
int main()
{
    int g = 28, h = 45;
    while(g <= h)
    {
        printf("%d, %d ", g, h);
        g = g + 7;
        h = h + 3;
    }
    return 0;
}
```

1. How many times will the code inside the body of the while loop repeat?
  - A. 2
  - B. 3
  - C. 4
  - D. 5
2. How many types of operators are used in this program?
  - A. 1
  - B. 2
  - C. 3
  - D. 4
3. How many functions are used in this program?
  - A. 1
  - B. 2
  - C. 3
  - D. 4

Use the given program to answer Q.4, Q.5, Q.6 and Q.7.

```
#include <stdio.h>
int main()
{
    int a = 10, ans = 0;
    for (int j=1; j<=a; j++)
    {
        if (j%2 == 0 && j%5 == 0)
            ans++;
    }
    printf("Answer: %d", ans);
    return 0;
}
```

4. The output of this program is
- A. 1
  - B. 2
  - C. 6
  - D. 7
5. If the **if statement** is changed to **if (j%2 == 0 || j%5 == 0)** in the given program, then the output will be
- A. 5
  - B. 6
  - C. 7
  - D. 10
6. To repeat the code inside the body of **for loop** 5 times, the **for loop** statement should be rewritten as
- A. for (int j=5; j>1; j--)
  - B. for (int j=5; j<=1; j--)
  - C. for (int j=1; ++j<10; j++)
  - D. for (int j=1; ++j<=10; j++)
7. The number of bytes required to store value of variable **a** in this program is
- A. 1
  - B. 2
  - C. 4
  - D. 8

8. Consider the given program.

```
include <stdio.h>
int main()
{
    char ch = 'A';
    printf("c", ch);
    return 0
}
```

The number of error(s) in this program is

- A. one.
  - B. two.
  - C. three.
  - D. four.
9. To display the value 12.670000 stored in a variable, the format specifier that should be used is
- A. %d
  - B. %e
  - C. %f
  - D. %u
10. The option that shows CORRECT pair of escape sequences used in the program to put double quotes around A is
- A. &"A"&
  - B. \"A\"
  - C. \$"A"\$
  - D. #"A#"

Please use this page for rough work

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