AGA KHAN UNIVERSITY EXAMINATION BOARD

SECONDARY SCHOOL CERTIFICATE

CLASS X

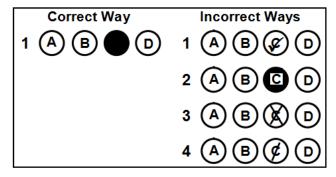
ALTERNATE TO PRACTICAL (ATP)

MODEL EXAMINATION PAPER 2021

Computer Science Paper III

Time: 20 minutes Marks: 10

- Answer the questions on the separate question paper.
 There are 100 answer. 2. Answer the questions on the separate answer sheet provided. DO NOT write your answers on the
- 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.



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 \le 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?
- How many types of operators are used in this program?

 A. 1
 B. 2
 C. 3
 D. 4

 How many functions are 2.
- 3.
 - A. 1
 - 2 B.
 - C. 3
 - 4 D.

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;
}</pre>
```

4. The output of this program is

1

- A.
- B. 2
- C. 6
- D. 7
- 5. If the **if statement** is changed to **if** ($\mathbf{j}\%2 == 0 \parallel \mathbf{j}\%5 == 0$) 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; $++j \le 10$; 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

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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.
- To display the value 12.670000 stored in a variable, the format specifier that should be used is 9.
- A. %d
 B. %e
 C. %f
 D. %u

 The option that shows CORRECT pair of escape sequences used in the program to put double quotes around A is 10.
 - A. &"A"&
 - B. \"A\"
 - C. \$"A"\$
 - D. #"A#"

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