1. $\mathbb{A} \bigcirc \mathbb{B} \bigcirc \mathbb{C} \bigcirc \mathbb{D} \bigcirc \mathbb{E} \bigcirc$
2. $\mathbb{A} \bigcirc \mathbb{B} \bigcirc \mathbb{C} \bigcirc \mathbb{D} \bigcirc \mathbb{E} \bigcirc$
3. $\mathbb{A} \bigcirc \mathbb{B} \bigcirc \mathbb{C} \bigcirc \mathbb{D} \bigcirc \mathbb{E} \bigcirc$
4. $\mathbb{A} \bigcirc \mathbb{B} \bigcirc \mathbb{C} \bigcirc \mathbb{D} \bigcirc \mathbb{E} \bigcirc$
5. $\mathbb{A} \bigcirc \mathbb{B} \bigcirc \mathbb{C} \bigcirc \mathbb{D} \bigcirc \mathbb{E} \bigcirc$
6. $\mathbb{A} \bigcirc \mathbb{B} \bigcirc \mathbb{C} \bigcirc \mathbb{D} \bigcirc \mathbb{E} \bigcirc$
7. $\mathbb{A} \bigcirc \mathbb{B} \bigcirc \mathbb{C} \bigcirc \mathbb{D} \bigcirc \mathbb{E} \bigcirc$
8. $\mathbb{A} \bigcirc \mathbb{B} \bigcirc \mathbb{C} \bigcirc \mathbb{D} \bigcirc \mathbb{E} \bigcirc$
9. $\mathbb{A} \bigcirc \mathbb{B} \bigcirc \mathbb{C} \bigcirc \mathbb{D} \bigcirc \mathbb{E} \bigcirc$
10. $\mathbb{A} \bigcirc \mathbb{B} \bigcirc \mathbb{C} \bigcirc \mathbb{D} \bigcirc \mathbb{E} \bigcirc$
11. $\mathbb{A} \bigcirc \mathbb{B} \bigcirc \mathbb{C} \bigcirc \mathbb{D} \bigcirc \mathbb{E} \bigcirc$
12. $\mathbb{A} \bigcirc \mathbb{B} \bigcirc \mathbb{C} \bigcirc \mathbb{D} \bigcirc \mathbb{E} \bigcirc$
13. $\mathbb{A} \bigcirc \mathbb{B} \bigcirc \mathbb{C} \bigcirc \mathbb{D} \bigcirc \mathbb{E} \bigcirc$
14. $\mathbb{A} \bigcirc \mathbb{B} \bigcirc \mathbb{C} \bigcirc \mathbb{D} \bigcirc \mathbb{E} \bigcirc$
15. $\mathbb{A} \bigcirc \mathbb{B} \bigcirc \mathbb{C} \bigcirc \mathbb{D} \bigcirc \mathbb{E} \bigcirc$
16. $\mathbb{A} \bigcirc \mathbb{B} \bigcirc \mathbb{C} \bigcirc \mathbb{D} \bigcirc \mathbb{E} \bigcirc$
17. $\mathbb{A} \bigcirc \mathbb{B} \bigcirc \mathbb{C} \bigcirc \mathbb{D} \bigcirc \mathbb{E} \bigcirc$
18. $\mathbb{A} \bigcirc \mathbb{B} \bigcirc \mathbb{C} \bigcirc \mathbb{D} \bigcirc \mathbb{E} \bigcirc$
19. $\mathbb{A} \bigcirc \mathbb{B} \bigcirc \mathbb{C} \bigcirc \mathbb{D} \bigcirc \mathbb{E} \bigcirc$
20. $\mathbb{A} \bigcirc \mathbb{B} \bigcirc \mathbb{C} \bigcirc \mathbb{D} \bigcirc \mathbb{E}$

From the following options:
A) Count $\leftarrow 1$; Not an algorithm while (Count $\neq \mid$ 10) do \{ print Court;
Count $\leftarrow$ Count +2 ; $\}$ Count $=10|\infty| 1357911$..
B)

Count $\leftarrow 0$;
while (Count $\neq 10$ ) do $\{$ print Count;
Count $\leftarrow$ Count +2 ;
$\}$ Count $=10|5| 02468$
C)

Count $\leftarrow 10$;
while (Count $\geq 0$ ) do \{
Count $\leftarrow$ Count - 2;
\} Count $=0|6| 10$
print 8 - Count;
D) Count $\leftarrow 10$;
repeat $\{$ Count $>0|1| 10$ print Count
Count $\leftarrow$ Count - 2;
\} until (Count >0)
E)
Count $\leftarrow 0 ;$
repeat $\{$ Count $=10|5| 246$
$\quad$ Count $\leftarrow$ Count $+2 ;$
$\quad$ print Count;
\} until (Count $=10$ )

## Identify:

1. Two algorithms that have

B,E the same stop condition
2. Two programs that pro$C, D_{\text {duce the same output }}$
3. A non terminating pro

A gram
4. Two programs that do the $B, E$ same number of iterations
5. A program that does only

D one iteration
From the following options:


## Identify:

| 6. AND gate | A |
| :---: | :---: |
| 7. NAND gate | B |
| 8. NOR gate | C |
| 9. XOR gate | D |

From the following options:
A) A
P) H
C) 0
D) FF
E) 1001101

Identify:
10. Bit
11. Byte Eight bits = two Hex $D$
12. Hexadecimal Digit 0-9,A-F A
13. ASCII Code Seven bits E

From the following options:
A) $45 / 16$
B) $4^{3} / 16$
C) $4 \frac{5}{8}$
D) $5 \frac{3}{8}$

欢 $5^{3} / 16$

## Identify:

| 14. | 100.0101 | $45 / 16$ | A |
| :--- | :--- | :--- | :--- |
| 15. | 100.101 | $45 / 8$ | C |
| 16. | 101.011 | 5 | $3 / 8$ | D

From the following options:
A) 1110
B) 1011
C) 0110
b) 1001
E) 1101

## Identify:

| 18. | $0011+0011$ | 0110 | C |
| :--- | :--- | :--- | :--- |
| 19. | $1100+0010$ | 1110 | A |
| 20. | $1011+0010$ | 1101 | E |

