Abhishek B.
6th June 202

Level 6 Test

1. B. 4
2. A. Analog to Digital
3. D. Joystick
4. A. Seven Segment Display
5. C. 40
6. D. && operator
7. A. 2 & 1
8. A. Set port pin as input or output
9. D. 2.4 GHz
10. Interrupt Service Routine
11. B. OR
12. A. decreases
13. C. DDRB = 0x04
14. C. 16 MHz
15. B. 6
16. B. Ensure sufficient current for motors
17. C. 16
18. C. while (1)
19. C. 256
20. A. PC0 is set as input
21. C. 8 MHz
22. B. Voltage gets divided and current stays the same
23. D. 11
24. A. 16
25. B. Ground
26. D. 6
27.

X	Y	Z
0	0	1
0	1	0
1	0	0
1	1	0

28.

Output LED - Red	Output LED - Green
OFF	ON
OFF	ON
OFF	ON
OFF	ON

29. Frequency - Hz
Power - W
Resistance - Ohms - Ω
Current - mA
Torque - Nm
Speed - m/s
Force - N
Voltage - V

30.
```
int main(void)
{
  DDRD = 0b00010000
  DDRB = 0b00000000
  while(1)
  {
    if (Checkbit(PINB, bit(1)))
    {
      angle(90);
      delay_ms(2000);
    }
    else
    {
      angle(0);
    }
  }
}
```

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31. a) C. LED - Blue

b) A. When $x < 100$

c) C. None of the LEDs will glow