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# M4-R5.1 – Introduction to Internet of Things & It's Applications




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# 1. Which skill helps manage work pressure?

a) Stress management
b) Panic
c) Laziness
d) Ignoring tasks

**Answer: a) Stress management**

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# 2. Which habit improves interview confidence?

a) Practice
b) Avoidance
c) Fear
d) Neglect

**Answer: a) Practice**

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# 3. Which communication type uses gestures and expressions?

a) Verbal
b) Written
c) Non-verbal
d) Technical

**Answer: c) Non-Verbal**

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# 4. Which writing skill is used for job application?

a) Resume writing
b) Story writing
c) Poetry
d) Essay

**Answer: a) Resume writing**

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# 5. Which professional quality builds trust?

a) Honesty
b) Deception
c) Arrogance
d) Laziness

**Answer: a) Honesty**

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## 6. Which skill helps in effective teamwork?

a) Ego
b) Cooperation
c) Isolation
d) Competition

**Answer: b) Cooperation**

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**7. Which communication barrier is caused by language differences?**

a) Psychological
b) Language barrier
c) Physical barrier
d) Technical barrier

**Answer: b) Language barrier**

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# 8. Which factor helps in career success?

a) Fear of failure
b) Resistance to change
c) Continuous learning
d) Isolation

**Answer: c) Continuous learning**

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## 9. Which interview skill involves answering questions clearly?

a) Coding
b) Debugging
c) Wiring
d) Communication

**Answer: d) Communication**

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# 10. Which behavior creates positive first impression?

a) Confidence
b) Negativity
c) Arrogance
d) Silence

**Answer: a) Confidence**

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# 11. Which soft skill helps in problem solving?

a) Fear
b) Laziness
c) Critical thinking
d) Isolation

**Answer: c) Critical thinking**

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## 12. Which writing format is used to summarize information?

a) Notice
b) Resume
c) Letter
d) Report

**Answer: d) Report**

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# 13. Which communication skill helps understand others?

a) Active listening
b) Speaking loudly
c) Interrupting
d) Ignoring

**Answer: a) Active listening**

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## 14. Which etiquette is important in workplace communication?

a) Politeness
b) Arrogance
c) Ignorance
d) Rudeness

**Answer: a) Politeness**

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## 15. Which habit is essential for personal growth?

a) Neglect
b) Procrastination
c) Self-discipline
d) Avoidance

**Answer: c) Self-discipline**

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# 16. Which factor improves self-confidence?

a) Fear
b) Preparation
c) Stress
d) Confusion

**Answer: b) Preparation**

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## 17. Which skill helps manage emotions effectively?

a) Emotional intelligence
b) Technical skill
c) Coding skill
d) Hardware skill

**Answer: a) Emotional intelligence**

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## 18. Which AI technique is used for pattern recognition in IoT?

a) Encryption
b) Machine learning
c) Compression
d) Routing

**Answer: b) Machine learning**

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# 19. Which concept processes data near the source?

a) Cloud computing
b) Edge computing
c) Grid computing
d) Centralized computing

**Answer: b) Edge computing**

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## 20. Which Iot feature trend improves real time decision making?

a) Edge computing
b) Manual processing
c) Wired control
d) Offline storage

**Answer: a) Edge computing**

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# 21. Which encryption technique is lightweight for Iot?

a) AES
b) DES
c) RSA
d) Blowfish

**Answer: a) AES**

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## 22. Which security practice reduces Iot vulnerabilities?

a) Open access
b) Weak passwords
c) Regular firmware updates
d) Ignoring patches

**Answer: c) Regular firmware updates**

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## 23. Which type of malware specifically targets Iot devices?

a) Trojan
b) Botnet
c) Worm
d) Spyware

**Answer: b) Botnet**

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# 24. Which Iot security goal ensures services continuity?

a) Confidentiality
b) Integrity
c) Availability
d) Authentication

**Answer: c) Availability**

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## 25. Which display is commonly used in basic IOT projects?

a) LCD
b) CRT
c) OLED TV
d) Projector

**Answer: a) LCD**

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# 26. Which pin is used to get sensor output?

a) Output pin
b) Input pin
c) Power pin
d) Reset Pin

**Answer: b) Input pin**

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# 27. Which Arduino library is used for Bluetooth communication?

a) Serial
b) Wire
c) SPI
d) EEPROM

**Answer: a) Serial**

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# 28. Which board is popular for Wi-fi based Iot projects?

a) Arduino Uno
b) NodMCU
c) 8051 board
d) PIC Board

**Answer: b) NodMCU**

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## 29. Which microcontroller family is widely used in embedded system?

a) AVR
b) 8086
c) Pentium
d) Core i7

**Answer: a) AVR**

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## 30. Which microcontroller feature supports multitasking?

a) Multiple timers
b) Large display
c) Keyboard
d) Printer

**Answer: a) Multiple timers**

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# 31. Which actuator is used to switch electrical appliances?

a) Relay
b) DC motor
c) Servo motor
d) Solenoid

**Answer: a) Relay**

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## 32. Which sensory is used for obstacle detection?

a) Moisture sensor
b) Temperature sensor
c) IR sensor
d) Pressure sensor

**Answer: c) IR sensor**

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## 33. Which IO T communication model supports asynchronous Data transfer?

a) Request-Response
b) Publish-Subscribe
c) Client-Server
d) Exclusive pair

**Answer: b) Publish-Subscribe**

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## 34. Which feedback system adjusts output automatically?

a) Open loop
b) Close loop
c) Static system
d) Manual system

**Answer: b) Close loop**

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# 35. Which Iot system uses sensors controller and actuator together?

a) Open loop system
b) Closed loop system
c) Manual system
d) Offline system

**Answer: b) Closed loop system**

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## 36. Which feature allows Iot devices to scale easily?

a) Cloud computing
b) Manual control
c) Wired network only
d) Isolation

**Answer: a) Cloud computing**

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## 37. Resume is a word?

a) French
b) German
c) Indian
d) American

**Answer: a) French**

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# 38. Which of the following Access network sublayer works in least range?

a) HAN
b) FAN
c) PAN
d) LAN

**a) Answer: c) PAN**

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# 39. Which reference modifier is used to define the reference variable?

a) &
b) $
c) #
d) @

**Answer: a) &**

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# 40. In Which year, the term “Internet of things” was coined?

a) 1998
b) 1999
c) 2000
d) 2001

**Answer: b) 1999**

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# 41. What is the full form of SCADA?

a) Supervisory Control and Document Acquisition
b) Supervisory Control and Data Acquisition
c) Supervisory Column and Data Acquisition
d) Supervisory Column and Data Assessment

**Answer: b) Supervisory Control and Data Acquisition**

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**42. Which of the following is the correct syntax for reading data from a sensor connected to an analog input pin?**

a) analogRead(sensor_pin);
b) digitalRead(sensor_pin);
c) analogWrite(sensor_pin,value);
d) digitalWrite(sensor_pin,value);

**Answer: a) analogRead(sensor_pin);**

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# 43. What is the shortcut key to decrease font size in the Arduino IDE ?

a) Ctrl +-
b) Ctrl+Shift +-
c) Ctrl+=
d) Ctrl+Shift+=

**Answer: a) Ctrl +-**

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# 44. Which of the following Arduino board has built-in Wi-Fi connectivity?

a) Arduino Uno
b) Arduino Mega
c) Arduino Nano
d) Arduino MKR1000

**Answer: d) Arduino MKR1000**

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**45. Which in the "Sketch" menu is used to check the code for errors ?**

a) Upload
b) Verify/Compile
c) Configure and Upload
d) Optimize for debugging

**Answer: b) Verify/Compile**

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# 46. How many keywords are there in c?

a) 31
b) 64
c) 63
d) 32

**Answer: d) 32**

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# 47. CoAP message has fixed size header field of ?

a) 3 bytes
b) 2 bytes
c) 4 bytes
d) 5 bytes

**Answer: c) 4 bytes**

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**48. What is the output of the program given below if a voltage of 5V is supplied to the pin corresponding to the AO pin on an Arduino Uno?**

```
void setup(){
Serial.begin(9600);
pinMode(AO,INPUT);
}
Void loop(){
int s=analogRead(AO);
Serial.println(s);
}
```

a) Null
b) Error
c) 0
d) 1024

**Answer: b) Error**

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**49. Which of the following is used to control the brightness of an LED connected to an Arduino board?**

a) Analog input pin
b) Digital input pin
c) Digital output pin
d) Analog output pin

**Answer: d) Analog output pin**

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## 50. What is the function of loop() function in an Arduino sketch?

a) It sets up the initial configuration of the sketch
b) It handles the input/output operations of the sketch
c) It runs continuously while the sketch is running
d) It is used to define custom functions in the sketch

**Answer: c) It runs continuously while the sketch is running**

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# 51. Which of the following cannot be a variable name in c?

a) TRUE
b) friend
c) export
d) volatile

**Answer: d) volatile**

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# 52. What is the microcontroller used in Arduino Uno?

a) ATmega2560
b) ATtiny85
c) ESP8266
d) ATmega328P

**Answer: d) ATmega328P**

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# 53. How many digital input/output pins does Arduino Uno have?

a) 8
b) 12
c) 14
d) 16

**Answer: c) 14**

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# 54. What is the operating Voltage of Arduino Uno?

a) 3.3V
b) 5V
c) 9V
d) 12V

**Answer: b) 5V**

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## 55. What Which of the following Communication interfaces is available on Arduino Uno?

a) SPI
b) I2C
c) UART
d) All of the Above

**Answer: d) All of the Above**

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# 56. What is the purpose of AREF pin on Arduino Uno?

a) Analog Reference Voltage
b) Analog Read Enable Flag
c) Analog Reset Function
d) Analog Receive Pin

**Answer: a) Analog Reference Voltage**

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## 57.What does the “Uno” in Arduino Uno represent?

a) One programming language
b) One communication protocol
c) One microcontroller
d) One kilobyte of memory

**Answer: c) One microcontroller**

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# 58. What is the function of reset button on Arduino Uno?

a) Restart the Arduino IDE
b) Reboot the computer
c) Restart the Arduino Uno board
d) Erase the program memory

**Answer: c) Restart the Arduino Uno board**

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# 59. Which operator is used for bitwise AND in C?

a) &
b) |
c) ^
d) !

**Answer: a) &**

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# 60. Which programming language is commonly used with Arduino?

a) Java
b) Python
c) C++
d) Ruby

**Answer: c) C++**

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# 61. What is the main function of the setup() function in Arduino?

a) It is used to define variables
b) It is called repeatedly in a loop
c) It is executed only once at the beginning of the program
d) It handles user input

**Answer: c) It is executed only once at the beginning of the program**

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# 62. What is the purpose of pinMode() function in Arduino?

a) To set the mode of the serial communication
b) To configure the pins as input or output
c) To initialize the pins as input or output
d) To define he baud rate for communication

**Answer: b) To configure the pins as input or output**

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# 63. What is the function of the loop() function in Arduino?

a) It handles button presses
b) It is executed only once at the beginning of the program
c) It contains the main code that runs repeatedly
d) It initializes variables

**Answer: d) It contains the main code that runs repeatedly**

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# 64. What does PWM stand for in the context of Arduino?

a) Pulse width Modulation
b) Program With Memory
c) Power wiring Module
d) Processor Working Mechanism

**Answer: a) Pulse width Modulation**

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# 65. What does IDE stand for?

a) In Deep Environment
b) Integrated Development Environment
c) Internal Deep Escape
d) IDLE

**Answer: b) Integrated Development Environment**

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# 66. How are multiline comments denoted in Embedded?

a) ##
b) /* */
c) %%
d) //

**Answer: b) /* */**

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## 67. The advantages of using functions is _____?

a) Partition larger task into smaller tasks
b) Code reusability
c) Manage Complexity
d) All of these

**Answer: d) All of these**

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## 68. What is the effect of performing AND operation of R with 0xFE?

a) Setting a selected bit of R
b) Clearing a selected bit of R
c) Complement selected bit of R
d) None of these

**Answer: b) Clearing a selected bit of R**

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# 69. What is the outcome of the following Arduino code?

```
void setup(){
Serial.begin(9600);
}
Void setup(){
Serial.Write(20);
}
```

a) Send a signal to pin 20 on the Arduino board
b) Send a octal number of 20 through the Serial pins
c) Send a byte with value 20 through the Serial pins
d) Send a hexadecimal number of 20 through the Serial pins

**Answer: c) Send a byte with value 20 through the Serial pins**

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## 70. Which of the following is the property of embedded C language?

a) Hardware independent
b) Used for web applications
c) Used with limited resources
d) Used for native development

**Answer: c) Used with limited resources**

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# 71. What are Arduino Codes are referred to?

a) sketches
b) drawings
c) links
d) notes

**Answer: a) sketches**

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## 72. What type of signal does the analogWrite() function output?

a) Pulse Code Modulated Signal
b) Frequency modulated Signal
c) Pulse Width Modulated Signal
d) Pulse Amplitude Modulated Signal

**Answer: c) Pulse Width Modulated Signal**

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## 73. How can you throw an error with preprocessor directives to Arduino Compiler, forcing to stop compilation?

a) #warning
b) #stop
c) #cut
d) #error

**Answer: d) #error**

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# 74. What will be the output of the following code?

```
#include<stdio.h>
void solve() {
char ch[5]=“abcde”;
int ans=0;
for(int i=0;i<5;i++){
ans += (ch[i] – ‘a’); }
printf(“%d”,ans); }
int main() {
solve();
return 0; }
```

a) 5
b) 20
c) 40
d) 10

**Answer: d) 10**

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# 75. What will be the output of the following code?

```
int main() {
int i=25;
int k=i%4;
printf("%d\n",k );}
```

a) 1
b) 2
c) 3
d) 4

**Answer: a)1**

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## 76. Which command is the 9th pin on Arduino set as output?

a) int sensorPin=9;
b) int sensorValue=9;
c) pinMode(9,OUTPUT);
d) digitalWrite(9,HIGH);

**Answer: c) pinMode(9,OUTPUT);**

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# 77. What is the function name for turn on led in arduino?

a) digitalwrite()
b) digitalread()
c) digitalWrite()
d) digitalRead()

**Answer: c) digitalWrite()**

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**78. In Arduino programming _____ indicate going forever.**

a) void loop()
b) void setup()
c) while
d) OUTPUT

**Answer: a) void loop()**

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# 79. Which command is used to create a delay in the Arduino program?

a) digitalRead()
b) for()
c) pinMode()
d) delay()

**Answer: d) delay()**

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# 80. The output of given C code is?

```
#include<stdio.h>
int main() {
int x=1; int y=1;z;
z=x++ + y;
printf("%d, %d",x,y); }
```

a) x=1, y=1
b) x=2, y=1
c) x=1,y=2
d) X=2, y=1

**Answer: b) x=2, y=1**

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# 81. Which of the following operators is a bitwise operator?

a) &&
b) ||
c) *
d) <<

**Answer: d) <<**

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# 82. How to terminate an infinite loop in embedded C?

a) end
b) exit
c) break
d) abort

**Answer: c) break**

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# 83. In the given C code, for loop executes for:

```
#include<stdio.h>
void main() {
int x=10;
for( ; ;) { printf("%d\n",x);}
}
```

a) 10 times
b) 9 times
c) infinite
d) zero

**Answer: c) infinite**

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# 84. Choose the correct option for indexing of the given code:

```
int main() {
int xyz[8];
return 0; }
```

a) 0,7
b) 0,8
c) 1,7
d) zero

**Answer: a) 0,7**

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# 85. A LED interfacing with Arduino as shown implies:

```
int main() {
int xyz[8];
return 0; }
```

a) 0,7
b) 0,8
c) 1,7
d) zero

**Answer: a) 0,7**

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# 86. In embedded C, Literals means:

a) a word
b) a letter
c) a digit
d) a string constant

**Answer: d) a string constant**

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# 87. What is true about Arduino codes:

a) setup() is a startup function.
b) loop() is executed repeateadly.
c) Also known as sketches
d) All of these

**Answer: d) All of these**

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**88. The keyword „PROGMEM" is a variable modifier of PROGMEM Utility. Which header file contains:**

a) avr/pspace.h
b) avr/pgmspace.h
c) avr/pmspace.h
d) avr/progmem.h

**Answer: b) avr/pgmspace.h**

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**89. LCD displays the text form of data when EN line shows _____and RS line is _____.**

a) 0 to 1 transitions & High.
b) 1 to 0 transitions & High.
c) 0 to 1 transitions & Low.
d) 1 to 0 transitions & Low.

**Answer: b) 1 to 0 transitions & High**

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## 90. The difference in If-Else and switch case statement is:

a) If-Else enforces binary search.
b) Switch-case enforces linear search.
c) Multiple statements can be used for numerous decisions inside If-Else.
d) Multiple statements can be used for numerous decisions inside switch case.

**Answer: c) Multiple statements can be used for numerous decisions inside If-Else.**

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# 91. A constant variable can be declared as:

a) only in variable declaration area.
b) After main ().
c) const number int
d) #define number 35

**Answer: d) #define number 35**

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## 92. Choose the correct option to access the 4th element of the array:

```
int z [30];
int *pz;
pz = z;
```

a) *(2+3)
b) z [3]
c) pz [3]
d) Both b) & c)

**Answer: d) Both b) & c)**

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# 93. In a function, an array is passed by:

a) Address relocation
b) Call by value
c) Function arguments
d) Call by reference

**Answer: d) Call by reference**

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# 94. An array index, xyz [] starts with:

a) 0
b) 0,1
c) 1
d) 2

**Answer: a) 0**

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# 95. What is the output of the following program?

```
for(;;)
{Statements}
```

a) Error
b) Statements will run forever
c) This an infinite loop
d) Both (b) and (c)

**Answer: d) Both (b) & (c)**

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# 96. Which one is not a control structure?

a) While
b) If. Else
c) #define
d) Case

**Answer: C) #define**

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# 97. Which of the following is the basic functions of a timer ?

a) Control the compare, capture moden
b) Act as a counter
c) Provide a time delay
d) All of these

**Answer: d) All of these**

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# 98. The advantages of using functions is

a) Partition larger task into smaller tasks
b) Code reusability
c) Manage complexity
d) All of these

**Answer: d) All of these**

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# 99. What are the functions preprocessor directive in Embedded C programming ?

a) Tell compiler where to find symbols that are not present in program
b) Give compiler instructions to compile the program
c) Define variables
d) Define functions

**Answer: a) Tell compiler where to find symbols that are not present in program**

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# 100. Which of the following is not a data type?

a) sbit
b) dbit
c) bit
d) unsigned int

**Answer: b) dbit**