CS101 updated Midterm Past Paper MCQs Questions From 2020 to date
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How many bits are typically used to represent each textual symbol?

A. 4 bits

B. 6 bits

C. 8 bits

D. 16 bits

Correct Answer: C

Which organization designed the American Standard Code for Information Interchange (ASCII)?

A. ISO

B. ANSI

C. Unicode Consortium

D. IEEE

Correct Answer: B

How many combinations can be represented using 7 bits in ASCII?

A. 64

B. 128

C. 256

D. 512

Correct Answer: B

What is the maximum number of characters that can be represented using 8 bits (1 byte) in ASCII?

A. 64

B. 128

C. 256

D. 512

Correct Answer: C

Which code standard supports thousands of character sets, including Chinese, Hebrew, and Japanese?

A. ASCII

B. ANSI

C. Unicode

D. ISO

Correct Answer: C

How many unique symbols can be represented using UTF-8 with 24 bits?

A. 16,777,216

B. 256

C. 65,536

D. 128

Correct Answer: A

What module discusses the representation of numeric values?

A. Module 18

B. Module 19

C. Module 20

D. Module 21

Correct Answer: B

How many numeric values can be represented using 16 bits?

A. 256

B. 65,535

C. 16,777,216

D. 65536

Correct Answer: B

What is binary notation primarily composed of?

A. Digits 0 to 9

B. Digits 0 and 1

C. Digits 0 to 7

D. Digits 0 to 15

Correct Answer: B

How many values can be represented using 4 bits in binary notation?

A. 4

B. 8

C. 16

D. 32

Correct Answer: B

How many numeric values can be represented using 16 bits in binary notation?

A. 256

B. 512

C. 65536

D. 131,072

Correct Answer: C

What is the name for the smallest unit in an image?

A. Vector

B. Pixel

C. Byte

D. Dot

Correct Answer: B

How are black and white images typically represented using pixels?

A. 8 bits per pixel

B. 4 bits per pixel

C. 2 bits per pixel

D. 1 bit per pixel

Correct Answer: D

How many bytes are used to represent one pixel in RGB encoding?

A. 1 byte

B. 2 bytes

C. 3 bytes

D. 4 bytes

Correct Answer: C

What does MIDI stand for in the context of sound representation?

A. Musical Instrument Digital Interface

B. Music In Digital Information

C. Musical Instrument Data Integration

D. Music In Digital Interface

Correct Answer: A

How many bits are used to record data from each sample in today's CDs?

A. 8 bits

B. 16 bits

C. 24 bits

D. 32 bits

Correct Answer: B

What is the primary advantage of MIDI over traditional sound encoding methods?

A. Smaller file size

B. Higher fidelity

C. Greater accuracy

D. Wider compatibility

Correct Answer: A

In binary notation, what digit is used in each position?

A. 0 or 1

B. 0 to 9

C. 1 or 2

D. 1 to 10

Correct Answer: A

How is binary addition carried out when both bits are 1?

A. It results in a carry-over

B. It produces a 0 with no carry-over

C. It produces a 1 with no carry-over

D. It is not possible

Correct Answer: A

How many possibilities are there when adding two bits in binary notation?

A. 2

B. 3

C. 4

D. 5

Correct Answer: C