CS101 Solved Subjective Questions from Old papers
By

Question No: 31 (Marks: 1)

What is heuristic?

Heuristic is a procedure that usually, but not always, works or that gives nearly the right answer.

Question No: 32 (Marks: 1)

In programming, what is an object?

Object is a named collection of properties (data, state) & methods (instructions, behavior).

Question No: 33 (Marks: 2)

What is spreadsheet? List any two jobs that it can do.

A spreadsheet is a grid that organizes data into columns and rows. Spreadsheets make it easy to display information, and people can insert formulas to work with the data.

Electronic replacement for ledgers

Charts

Financial-forecasting.

1

Question No: 34 (Marks: 2)

In JavaScript, what is event handling? What are the two types of events?

In JavaScript capturing events and responding to them is event handling. The system sends events to the program and the program responds to them as they arrive.

1. Events can include things a user does - like clicking the mouse.

2. Events that the system itself does - like updating the clock.

Question No: 35 (Marks: 3)

Explain how many ways businesses monitor their employees?

• Systems are available that monitor almost every key stroke that an employee makes on a computer.

• Systems are available that read and censor all incoming and outgoing eMail.

• It is quite straight forward to monitor where you surf the web.

Question No: 36 (Marks: 3)

What is difference between Design and System Architecture?

System architecture is the conceptual design that defines the structure and/or behavior of a system. Whereas designs it as an independent, self-contained system.

2

Question No: 37 (Marks: 3)

What are the Sub categories of Artificial Intelligence? Briefly explain any two.

1. **Expert systems:**

Expert system is that system which is in some limited sense, can replace an expert.

2. **Robotics:**

Robotics is an automatic machine that performs various tasks that were previously done by humans.

Question No: 38 (Marks: 5)

How many ways are there to call a function in a program? Explain with example.

Two Ways of Calling Functions:

Functions do not run automatically. When the page loads, each function waits quietly until it is told to run.

1. A function calls appearing as a complete statement:

function popUp(message) {

window.alert(message) ;

}

popUp("Warning!") ;
3

2. A function calls appearing as part of a statement. Definitions of such functions include a 'return' statement:

function add(a, b) {

c = a + b ;

return c ;

}

sum = add(2, 4) ;

document.write(sum) ;

Question No: 39 (Marks: 5)

Elaborate the '+ ' operator and its constraints with the help of examples.

The + Operator Used on Strings. The + operator can also be used to add string variables or text values together. To add two or more string variables together, use the + operator.

Example:

txt1="What a very";

txt2="nice day";

txt3=txt1+txt2;

Now txt3 will be having this value "What a very nice day".

txt3=txt1+txt2; this statement due to + sign.
4

Question No: 40 (Marks: 10)

Write a JavaScript program having two functions sum and mean.

The web page will ask the user to enter five values to be added.

After taking input it will calculate the sum and mean of those values by calling sum and mean functions.

Question No: 41 (Marks: 10)

Define the following terms.

Object

Object is a named collection of properties (data, state) & methods (instructions, behavior).

Event Handler

An event handler is a command which calls a function when an event happens, such as the user clicking a button.

Local Variable

Declaring variables (using the var keyword) within a function makes them local. They are available only within the function and hold no meaning outside of it.

Scope of Variable

Defining the space in which a variable is effective is known as defining the scope of a variable. A variable can be either local or global in scope.

Array

Array is an indexed list of elements.5

Question No: 27 (Marks: 1) What BIOS stands for?

BIOS stand for Basic input/output system.

Question No: 28 (Marks: 1) List down the Analytical Engine's components name (any two) Input

Memory

Processor

Output. **Question No: 29 (Marks: 2) Why uploading a web page is important? Describe in 2 – 3 lines.**

By only uploading webpage we could place our information so that other can reach up to what we have loaded. Upload means make available our data or information for the world web browsers. **Question No: 30 (Marks: 3) What is the difference between microprocessors and microcontrollers? Give one example of both.** The microprocessor is electronic equipment which can perform several functions and also processing of data and information present in a computer, while microcontroller can only perform one function for that its design. **Example:** Microprocessor: Pentium 4 & Personal Computer. Microcontroller: Electrical device, washing machines, microwave ovens, telephones etc.

Question No: 31 (Marks: 5) Differentiate uni-Processor OS from Multi-Processor OS.

Uni-processor OS'es is designed to schedule tasks on a single uP only whereas Multi-processor OS'es can control computers having multiple uPs, at times 1000's of them.

6

Question No: 32 (Marks: 5) Why do we call JavaScript an Object-based Language?

JavaScript shares many similarities with object-oriented languages, and therefore is called an object-based language.

Question No: 31 (Marks: 1)

When does recursion occur?

Question No: 32 (Marks: 1)

What are the types of computer network according to the distance between nodes?

There are two types of networks.

1. LAN (Local Area Network)

2. WAN (Wide Area Network)

Question No: 33 (Marks: 2)

What is meant by semantic error?

Occur when a statement executes and has an effect not intended by the programmer and Often times occur only in unusual & infrequent circumstances.

Question No: 34 (Marks: 2)

List down the names of two array methods available in JavaScript.

1. sort( ) [sorts elements in alphabetical order].

2. reverse( ) [Reverses the order of elements].

7

Question No: 35 (Marks: 3)

How can you define a consistent web design? Why is it needed?

A consistent good designed website is generated for general public that allows users to attain what they want as quickly as possible without spending much effort. A consistent good design is needed to assists the user in recovering from errors.

Question No: 36 (Marks: 3)

How can we include images in a web page using HTML and Java script?

Image in HTML

<IMG src=URL, alt=text height=pixels width=pixels align="bottom|middle|top">

Image in Javascript

Images in JavaScript can be manipulated in many ways using the built-in object Image.

Additional properties to HTML are hspace, vspace & lowsrc.

Example: It can be used by many handlers like, onAbort, onLoad & onError

Question No: 37 (Marks: 3)

The event handler attribute consists of three parts. Write about each of them.

1. The identifier of the event handler.

2. The equal sign.

3. A string consisting of JavaScript statements enclosed in double or single quotes.

8

Question No: 38 (Marks: 5)

What is a packet in the network environment? What kind of information does it contain?

A packet is the smallest unit of data transmitted over a computer network. It's a message to be transferred over the network is broken up into small packets by the sending computer.

Each packet contains the following info:

–Sender's address

–Destination address

–Data

–Error-recovery info.
9

Question No: 39 (Marks: 5)

Suppose we have a big project. Draw hierarchy of the people involved in the project?

Executive Team

CEO, COO, CMSO