

Cs101

Introduction to Computing

Most Repeated Subjective Midterm

- | | | |
|--------------------------|----------------------|-----------------------|
| ❖ Midterm Short Notes | ❖ Important Question | ❖ Accurate Assignment |
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| ❖ Mid Term Past Paper | ❖ Solved Past Paper | ❖ Accurate GDB |
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Short Questions

2+3 Marks

Question No 1

What was the name of first super computer. When it was introduced?

Ans

CRAY1 is the first computer and it was introduced in 1973

Question No 2

What are compilers used for ?

Ans

Compiler is a software that can translate the whole program in once. It also save the program.

Question No 3

What is Script?

Ans

Script is a sequence of steps to carry out a work by processor And manage by a language like Javascript and vb scripts.

Question No 4

What is the key feature of batch programs?

Ans

The key feature is no user interaction with computer while a program is running.

Question No 5

Name two languages which are used for client side scripting?

Ans

JavaScript , VBscript

Question No 6

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

Ans

The identifier of the event handler the equal sign a string statement enclosed in double or single quotes.

Question No 7

How a designer makes Structured Design?

Ans

Structured Design is known as a Top-down design. The designer first conceives about the High level design and then further designs the details of the high level design components and it goes on and on.

Question No 8

What is Randomized Algorithm?

Ans

Randomized Algorithm:

Any algorithm whose behavior is not only determined by the input, but also values produced by a random number generator

Question No 9

Define URL

Ans

URL(Uniform resource locator)

URL (Uniform Resource Locator, previously Universal Resource Locator) – is the address of a file (resource) accessible on the Internet. The type of file or resource depends on the Internet application protocol.

Question No 10

**What is <P> tag in HTML and How it is different from
 tag?**

Ans

*<p> is used for paragraph in HTML language it has a closing tag </p> unlike
 which has no closing tag. Br only used to break the current line while <p> can be used for more lines*

Question No 11

What is the purpose of MODEM ?

Ans

It receive data analog signal from a phone line and then convert them into digital signal and send back to the computer with which it is attached. It also receives data from computer and convert it into analog signals.

Question No 12

What is Home Page of a web site?

Ans

For a web user it is a first page displayed when a user starts a web browser and for a web developer it is a first page when a user selects a site.

Question No 13

Why microprocessor uses the binary number system and not the decimal or any other number system?

Ans

Because this system is natural for digital computer. Digital computer have fundamental building blocks like ON & OFF Etc so it is natural to represent those in a number system that has only two symbols e.g Binary Numbers 0,1. Whereas decimal system is natural for human.

Question No 14

Differentiate between onLoad and onUnload

Ans

On load event is used when the page is load in the browser while on the other side onUnload event works when the page closes down.

Question No 15

What is best algorithm?

Ans

Greedy algorithm is the best algorithm as it is n algorithm that always takes the best immediate, or local solution while finding an answer.

Question No 16

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

Ans

Event handling means capturing an event and responding to that.

Events e.g. onMouseOver, OnClick, onLoad, Onunload, updating the clock etc. are captured by the Java script & According to the programs they are responded accordingly

Question No 17

What is a function? Give one example.

Ans

Function is a reusable code (group of statement) that is executed when the function is called. It is also known as sub-Program. Function is normally defined in the head section of the code.

Question No 18

What is Structured Vector Graphics ?

Ans

This is a plug-in that is required to view swf (flash) files in the web browser

Question No 19

Write names of the DoS attack's phases?

Ans

DoS (Denial of service): DoS attack has in total 3 phases and below they are listed:

1. Search
2. Arm
3. Attack

Question No 20

Briefly mention any three problems in old modes of presentation development

Ans

- ❖ Lack of resolution
- ❖ Low color configuration
- ❖ No graphic animation

Question No 21

Why the quality of image in dithering scheme is not good?

Ans

In this scheme, pixels of alternating colors are used to simulate a color that is not present in the palette

For example, red and green pixels can be alternated to give the impression of bright Yellow

The quality of the displayed image is poorer

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Question No 22

What is the difference between Interactive-mode and Batch-mode Application Software?

Ans

Batch-mode

This Mode Program has no user interaction with computer while a program is running e.g Paroll

Interactive-mode

The user runs the program on the computer and keeps interacting with the computer while a program is running e.g word processor

Question No 23

What is a Relational Database? Give the names of any three RDBMS software.

Ans

Database architecture consists of three levels, external, conceptual and internal. Clearly separating the three levels was a major feature of the relational database.

NAMES:

Oracle Database software, Linux, and oracle e business database software , and Oracle OLAP.

Question No 24

What do you mean by the term 'Telepresence' in Computing World?

Ans

Telepresence

- ❖ *Being there, without physically being there!*
- ❖ *Two remotely located people, with the help of special equipment, immersed in a simulated 3-D environment where they interact like they are sitting next to each other*
- ❖ *Chatting, a telephone conversation, or even a videoconference are examples, but in a degraded sense of the idea*

Question No 25

What is meant by semantic error ?

Ans

It is an error which a developer encounters when a statement is executed but it was not intended by him (the developer). Such errors are very difficult to locate during testing. Mostly these occur during abnormal circumstances. It may be referred as the logical error.

Question No 26

Define the term 3D Rendering

Ans

The process of converting information about 3-D objects into a bit-map that can be displayed on a 2-D computer display.

Question No 27

Define testing with respect to programming.?

Ans

Testing:- The tasks performed to determine the existence of defects.

Programming:- The process of telling the computer what to do.

Question No 28

What is ICMP?

Ans

ICMP is the "Internet Control Message Protocol". ICMP packets are small packets used in local networks and on the internet, most typically, for network troubleshooting and problem location.

Question No 29

Mention any five applications of Artificial Intelligent System

Ans

1. Games
2. Image recognition
3. Medical diagnosis
4. Robots
5. Business intelligence

Question No 30

Explain function arguments with the help of an example?

Ans

A named group of statements that is put together once and then used (by reference) repeatedly on a Web page code becomes easier to read, understand and maintain

Question No 31

What are the elements of website design? Any one

Ans

- ❖ Navigation scheme
- ❖ Layout of information
- ❖ Overall look and feel

Question No 32

What is meant by universal access of internet services ?

Ans

Universal access of internet services means same functionality to every one.

Question No 33

Differentiate between For and While loop by writing the syntax of both loops.

Ans

When the exact number of iterations is known, use the 'for' loop when the number of iterations depend upon a condition being met, use the 'while' loop 'for' loops become especially useful when used in conjunction with arrays we'll find out about arrays today, and we'll probe their usefulness as part of 'for' loop structures

Question No 34

In programming, what is a loop?

Ans

In computer science a for loop is a programming language statement which allows code to be repeatedly executed. A for loop is classified as an iteration statement.

Question No 35

What are the other names of function? Any one.

Ans

Routine , procedure , sub program

Question No 36

How JavaScript Arrays are heterogeneous?

Ans

Arrays are heterogeneous in java script because at the same time simultaneously they can hold elements of multiple data types

Question No 37

What are Trojan Horses?

Ans

Trojan horses are a kind of cyber crime, they are v harmful to computer because they are stand alone program and the look like what they are not like any thing amusing or not harmless like games.

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Question No 38

What BIOS stands for?

Ans

Binary Input Output System

Question No 39

List down the Analytical Engine's components name (any two)

Ans

Google & Netscape,

Question No 40

Why uploading a web page is important? Describe in 2 – 3 lines.

Ans

By only uploading webpage we could place our information in order the other can reach up to ready what we load, upload means make available our data or information for the world web browsers

Question No 41

Differentiate uni-Processor OS from Multi-Processor OS.

Ans

The Multiprocessors is when more than one processor is under operation it can be several or may hundreds of the kind to perform one great operation or calculation, while our PC is a kind of uni-processor

Question No 42

Why do we call JavaScript an Object-based Language?

Ans

Java Script is a language by which we are writing our web-pages, this language is designed to work for web pages

Question No 43

In programming, what is an object?

Ans

A named collection of properties (data, state) & methods (instructions, behavior)

Question No 44

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

Ans

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.

- 1. Electronic replacement for ledgers Charts*
- 2. Financial-forecasting*

Question No 45

Explain how many ways businesses monitor their employees?

Ans

- 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, and when*

Question No 46

What is difference between Design and System Architecture?

Ans

Only the higher level designs are called System Architecture and lower level designs can not be called system Architecture, and we can also say the every Architecture can be called design but every design can not be called Architecture

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Question No 47

Write a JavaScript program having two functions sum and mean.

Ans

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 48

What does TCP/IP stand for?

Ans

TCP stand for Transmission Control Protocol

IP stands for Internet Protocol

Question No 49

What do you mean by FTP or File Transfer Protocol?

Ans

This protocol is used to upload and download the files on remote computers.

Question No 50

Give any five well-known design heuristics for architectural design.

Ans

Given many parts of a system to be designed/built, do the hard part 1st. All the serious mistakes are made on the very first day. Simplify, simplify, simplify! Probably the most useful heuristics for increasing reliability while decreasing cost & time-to-build.

Question No 51

What does NIC stand for?

Ans

Network Interface Cards.

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Question No 52

Why there is a need to use primary key in database ?

Ans

Primary Key is a field that uniquely identifies each record stored in a table.

Question No 53

What kind of information can be stored in a database?

Ans

It can store numbers, Booleans, sound, video, images etc.

Question No 54

Define the key weakness of the web?

Ans

Initially web was designed only for humans to read not for computers to understand it.

Question No 55

How many iterations would this 'for' loop run for?

For ($x = 50 ; x < 0 ; x = x - 1$) {

Document.write (x);

}

Ans

50 iterations

Question No 56

How can we define a Pixel?

Ans

It is the smallest element of image which is spread with regular array on display and each element consist of particular color.

Question No 57

What are Local or Function-level Variables?

Ans

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.

Question No 58

What is the Data Normalization? Also define its goal.

Ans

Data normalization is to sort out complex data into simple form. It uses to simplify the compANS information to make it more user-friendly.

Question No 59

SMTP stands for what?

Ans

Simple Mail Transfer Protocol

Question No 60

What is bandwidth?

Ans

Bandwidth is a capacity of communication channel of carrying data.

Question No 61

What is "My Personal Agent"?

Ans

A computer programe that work automatically and have voice interface

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Question No 62

For what purposes FTP is used in networks ?

Ans

To download or upload files / data to a remote computer

Question No 63

How can you define a readable program?

Ans

A program that is easy to read & understand also easy to maintain and enhance.

Question No 64

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

Ans

A consistent web design is Easy understandable, not with heavy graphics, easy navigation. It is needed because most of the website views leave the site because of poor navigation and not easy to understand, text and design is not clear etc.

Question No 65

What does WAN stand for?

Ans

Wide Area Network – A network in which computers are separated by great distances typically across cities or even continents.

Question No 66

Why hub is used in networks?

Ans

The network traffic controller – components of conventional computer networks. Hub is used to connect the different computers in the network i.e. to the server.

Question No 67

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

Ans

The types of computer network according to the distance between nodes are:

1. LAN
2. WAN

Question No 68

List any five issues of Data Management.

Ans

- ❖ Data entry
- ❖ Data updates
- ❖ Data integrity
- ❖ Data security
- ❖ Data accessibility

Question No 69

What is an IP address ?

Ans

Every device connected to the public Internet is assigned a unique number known as an Internet protocol (IP) address.

Question No 70

Define semantic web with respect to the present web?

Ans

The Semantic Web is an idea of World Wide Web inventor Tim Berners-Lee that the Web as a whole can be made more intelligent and perhaps even intuitive about how to serve a user's needs.

Question No 71

What is an Array?

Ans

An indexed list of elements.

Question No 72

Define Primary key and Queries

Ans

Primary Key

Primary key is a field that uniquely identifies each record stored in a table.

Queries

Queries are used to view, change, and analyze data. They can be used to combine data from different table and extract the exact data that is desired.

Question No 73

When does recursion occur?

Ans

The power of recursion evidently lies in the possibility of defining an infinite set of objects by a finite statement.

Question No 74

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

Ans

1. *Sort() [sorts elements in alphabetical order]*
2. *Reverse() [Reverses the order of elements]*

Question No 75

What is the difference between Internet and Intranet?

Ans

The Internet is an open, public space, while an intranet is designed to be a private space. An intranet may be accessible from the Internet, but as a rule it's protected by a password and accessible only to employees or other authorized users

Question No 76

Write a short note on:

- ❖ **Good programming methodology?**
- ❖ **Correct program**

Ans

Good programming methodology

A methodology that enables the lowest-cost and on-schedule development of programs that are correct, easy to maintain & enhance.

Correct program

A program with correct syntax & semantics.

Long Question

Question No 1

What is Robotics? How Robots making our daily and industrial life easy?

Ans

Robotics

These are the machines which are computer programmed and perform work which was previously done by humans. They can be found in the manufacturing industry, the military, space exploration and medical applications.

Question No 2

What are the responsibilities and profile of a Team Lead?

Ans

Team Lead

• Responsibilities:

- *Planning and tracking of the project*
- *Detailed design*
- *Professional development of team members*
- *In case of small teams, development activities*

• Profile:

- *5+ years of development experience*
- *Excellent interpersonal skills*
- *Good planning skills*
- *Good design skills*

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Question No 3

Differentiate between LAN and WAN with one example of each.

Ans

LAN is a local area network where as wan is a wide area network LAN can be used in a specific areas with limited computers where as wan can be used on computers shared by large distances

For example LAN can be used on pc s or an organization located in one building but wan can be used on large scales like banks all over or in any Large communication systems

Question No 4

Write down three advantages of using Functions in a program.

Ans

- *Debugging is easier*
- *It is easier to understand the logic involved in the program*
- *Testing is easier*
- *Recursive call is possible*
- *Irrelevant details in the user point of view are hidden in functions*
- *Functions are helpful in generalizing the program*

Question No 5

What are the advantages of multimedia presentations? Write any five.

Ans

Multimedia presentation is a great tool for effective communication:

Advantages:

1. *Easy to make last minute change*
2. *More attractive*
3. *Can include animation, videos etc.*
4. *Better presentation easy to understandable for participants comparing to manual presentation.*

Undo feature

Question No 6

Briefly describe Holographic Storage.

Ans

Holographic Storage

- ❖ Digital data stored in and read from a 3-D optical material with the help of lasers
- ❖ Depending upon the material, they could be read-only or R/W
- ❖ The data density (quantity of data stored per unit volume) will be millions of times more than anything available today
- ❖ The concept has been validated but commercial applications are at least 10 years away

Question No 7

Write down the advantages of Natural Language Processing.

Ans

It is able to read what you write, comparing it to a stored database of texts. It then corrects your errors and suggests alternatives. What advantages can this give you? Here are some:

- ❖ You Don't Have to Worry About Careless Mistakes and Typos
- ❖ Your Grammar and Punctuation Errors are Fixed
- ❖ Allows You To Get More Accomplished
- ❖ Gives You A Better Vocabulary
- ❖ Instantly Upgrades Your Communication Skills

Question No 8

Elaborate Raster Graphics with examples.

Ans

Raster graphics are digital images created or captured (for example, by scanning in a photo) as a set of samples of a given space. A raster file is usually larger than a vector graphics image file. A raster file is usually difficult to modify without loss of information.

Examples of raster image file types are: BMP, TIFF, GIF, and JPEG files.

Question No 9

What are the steps of working of TCP and IP protocols in internet transmission?

Ans

TCP divide messages in to many packets (capsulation) and sent these messages over the internet and IP route these messages on the internet to the correct destination and upon reaching the messages on its destination the messages are encapsulated.

Question No 10

What is ARPANET and who developed it?

Ans

ARPANET stands for Advanced Research Projects. The initial purpose was to communicate with and share computer resources among mainly scientific users at the connected institutions. In the beginning it was connected four universities and enabled scientists to share resources. It was headed by Dr. J.C.R. Licklider.

Question No 11

What is the difference between microprocessors and microcontrollers? Give one example of both.

Ans

The microprocessor is electronic equipment which can perform several function and also processing of data and information present in a computer, while microcontroller can only perform one function for that its design

Example

- ❖ *Microprocessors _ Pentium 4*
- ❖ *Microcontroller _ can be a switch in side the washing machine*

Question No 12

Differentiate Local and Global Variables.

Ans

Local variables are the variables have limited scope while global have bigger scope

Local variables are not accessed by others while global is accessible to every one

Local variable used by single user while global variable can be used by different users at time from all around.

Question No 13

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

Ans

1. Robotics

These are the machines which are computer programmed and perform work which was previously done by humans.

They can be found in the manufacturing industry, the military, space exploration and medical applications.

2. Expert Systems

These systems are designed to replace an expert. The medical expert system is an example of such system which can replace a Doctor/medical expert.

Question No 14

Why do we need an Interactive Form in a webpage?

Ans

- ❖ *Interactive forms are used to gather user data and interact with the user.*
- ❖ *Forms can be made interactive with the use of client side scripting and server side sciprting.*
- ❖ *In HTML, <FORM></FORM> tag is used to insert the form in a web page and it always lie in <BODY></BODY> html tag.*
- ❖ *Without form's web site is only "READ ONLY".*

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- ❖ *With the help of forms a user can search the contents, place order for goods and services.*
- ❖ *Forms can be simple or very complex, based on the requirement.*
- ❖ *Forms can contain a single element or many e.g text area, buttons*

Question No 15

Write a brief note on each of the following.

- ❖ **FTP**
- ❖ **Telnet**
- ❖ **Instant messaging**
- ❖ **VoIP**

Ans

FTP: File Transfer Protocol: This protocol is used to upload and download the files on remote computers.

Telnet: FTP allows file operations only while Telnet can log on to a computer of other users through TCP/IP network and use like a local user, it help in testing of remote web server.

Instant Messaging: This is the service of messaging provided on the internet like MSN messenger, Yahoo messenger, through which we interact people randomly whenever required.

VoIP: Voice over IP, It is used to transmit the voice from one IP to another IP, In which voice is first broken down and then transmitted over a network.

Question No 16

Define professional ethics and its benefits with an example?

Ans

Professional Ethics

- ❖ *Professional ethics are a category of ethics, and here we discuss the professional ethics relevant to computing*
- ❖ *Awareness of professional ethics is gaining importance with time as the decision making process in the work place keeps on increasing in complexity*
- ❖ *The professional ethics provide a way of simplifying that decision making process let us now discuss a few situations where I will request you for your ethical opinions*

Question No 17

What are application softwares? List down the names of three application softwares.

Ans

Application Software

Application Software are that software then can interact directory with the user for performance of respective type of work.

Following are the types of Application Softwares:-

- ❖ AutoCAD and Corel Draw
- ❖ Business Software
- ❖ Productivity SW
- ❖ Games Software

Question No 18

What is the difference between 'single-line text input field' and 'password input field' ?

Ans

A Password Field is good for sensitive information. The only item that is absolutely necessary is the Submit Button. It is a good idea to include a Reset Button for the convenience of the user.

A text field gathers information using a single line of text. This field is useful for short answers. The default text field is blank. If you want to specify default text, use the VALUE attribute. .

Question No 19

What is an intelligent system?

Ans

Intelligent systems are the programs developed to perform complicated jobs that reflect human brain and thoughts. If the algorithms are too much complex or can not be solved instantly then we can use such systems. Therefore the well Intelligent system not only performs well but it has the capability to rectify any errors by himself if it occurs within his domain.

The examples of intelligent systems are Robotics, Business Intelligence ...etc.

Question No 20

Is tabular data storage better than flat file data storage? Justify your answer.

Ans

- ❖ *Similar items of data form a column*
- ❖ *Fields placed in a particular row – same as a flat-file record – are strongly interrelated*
- ❖ *One can sort the table w.r.t. any column*
- ❖ *That makes searching – e.g., for all the books written by a certain author – straight forward*
- ❖ *Similarly, searching for the 10 cheapest/most expensive books can be easily accomplished through a sort*
- ❖ *Effort required for adding a new field to all the records of a flat-file is much greater than adding a new column to the table*

CONCLUSION: *Tabular storage is better than flat-file storage*

Question No 21

Write a note on :

Coding guidelines

Guidelines for developing short programs.

Ans

Coding guidelines

- *Always use semicolons to end statements*
- *Indent blocks of code (2 to 5 spaces)*
- *Identifiers*
- *Use the camel back scheme*
- *Variables: nouns*
- *Functions: verbs*
- *Comment Liberally*
- *Make them descriptive but concise*

Guidelines for developing short programs

- *Read and understand the problem*
- *Do you have all the required data?*
- *No: Get it*
- *Else assume it. State it explicitly*
- *Do the design*

Most Important & Repeated Question Midterm CS101

آپ سب سے گزارش ہے پلیز دعاؤں میں یاد رکھیں
مزید ایسی پوسٹ حاصل کرنے کیلئے ہمارا یوٹیوب چینل سبسکرائب کریں
اللہ پاک آپ سب کو اور مجھے اپنے مشن میں کامیابی عطا فرمائے۔۔۔ آمین

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