

PROVISIONAL ANSWER KEY

Question 23/2023/OL

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Question1:-Current is considered as the movement of

A:-electrons

B:-protons

C:-charge

D:-nuclei

Correct Answer:- Option-A

Question2:-Which of the following laws is the relation between voltage, current and resistance?

A:-Ohm's Law

B:-Kirchhoff's current law

C:-Kirchhoff's voltage law

D:-Faraday's law

Correct Answer:- Option-A

Question3:-An ammeter is used to measure

A:-voltage

B:-current

C:-resistance

D:-all of the above

Correct Answer:- Option-B

Question4:-The voltage will influence current only if the circuit is

A:-Open

B:-Insulated

C:-High resistance

D:-Closed

Correct Answer:- Option-D

Question5:-If the current in a circuit equals 0 A, it is likely that the

A:-voltage is too high

B:-resistance is too low

C:-circuit has a short

D:-circuit is open

Correct Answer:- Option-D

Question6:-If the resistance in a series circuit doubles, current will

A:-be the same

B:-be doubled

C:-reduce source voltage

D:-be halved

Correct Answer:- Option-D

Question7:-If three resistors of 1.2 kilo ohms, 470 ohms, and 330 ohms are connected in series with a 20 volt source, what will be the total circuit current?

A:-100 mA

B:-10 mA

C:-1 A

D:-1.2 A

Correct Answer:- Option-B

Question8:-If the two resistors of 270 ohms each are connected in parallel, the effective resistance will be

A:-270 ohms

B:-540 ohms

C:-135 ohms

D:-none of the above

Correct Answer:- Option-C

Question9:-What will be the effective resistance of a circuit, when resistance R1 (1 kilo ohms) is connected in series with a parallel combination of R2 (900 ohms) and R3 (450 ohms)?

A:-1.3 Kilo ohms

B:-900 ohms

C:-450 ohms

D:-1.35 Kilo ohms

Correct Answer:- Option-A

Question10:-Three capacitors 2 F, 3 F and 9 F are connected in parallel. What will be the effective capacitance?

A:-2 F

B:-9 F

C:-14 F

D:-1.058 F

Correct Answer:- Option-C

Question11:-A capacitor is connected in a dc circuit. What will be the reactance of the capacitor?

A:-zero

B:-infinite

C:-moderate

D:-can not tell

Correct Answer:- Option-B

Question12:-A circuit consists of a capacitor, resistor and a voltage source in series. If the voltage across the resistor measures zero, then the capacitor is

A:-charging

B:-fully charged

C:-discharging

D:-fully discharged

Correct Answer:- Option-B

Question13:-In reverse biased pn junction, when the voltage is increased, the voltage at which the current will start to flow is called

A:-barrier potential

B:-forward voltage

C:-biassing voltage

D:-breakdown voltage

Correct Answer:- Option-D

Question14:-The advantage of bridge rectifier over the centre tapped full wave rectifier is

A:-higher efficiency

B:-lower ripple factor

C:-lower peak inverse voltage (PIV)

D:-all of the above

Correct Answer:- Option-C

Question15:-The percentage ripple of full-wave rectifier is

A:-48%

B:-121%

C:-91%

D:-100%

Correct Answer:- Option-A

Question16:-For a two input XOR Gate, if one input is A and other input is 0, then the output will be

A:-0

B:-1

C:-A

D:-complement of A

Correct Answer:- Option-C

Question17:-Name the gate that will give a HIGH output for any case when one or more inputs are HIGH.

A:-OR Gate

B:-AND Gate

C:-XOR Gate

D:-NAND Gate

Correct Answer:- Option-A

Question18:-A decoder with 2 inputs will have _____ outputs.

A:-2

B:-4

C:-8

D:-1

Correct Answer:- Option-B

Question19:-A half adder performs

A:-logical addition of 2 numbers

B:-arithmetic addition of 2 bits

C:-both logical and arithmetic addition

D:-none of the above

Correct Answer:- Option-B

Question20:-Minimum number of two-input NAND gates required to realise $Y=AB+CD$

A:-3

B:-4

C:-5

D:-6

Correct Answer:- Option-A

Question21:-The device with multiple inputs and only one output

A:-Decoder

B:-Encoder

C:-Multiplexer

D:-Demultiplexer

Correct Answer:- Option-C

Question22:-A four to one (4-1) multiplexer will have _____ select lines

A:-1

B:-2

C:-3

D:-4

Correct Answer:- Option-B

Question23:-How many cells will be there in a 4 variable K map?

A:-4

B:-32

C:-8

D:-16

Correct Answer:- Option-D

Question24:-1's complement of 10110110 is

A:-01001010

B:-01001001

C:-11001001

D:-11110000

Correct Answer:- Option-B

Question25:-Convert the binary 10110110 into Hexa Decimal

A:-B6

B:-A2

C:-C6

D:-C2

Correct Answer:- Option-A

Question26:-Which is the most popular basic Linux commands that lets you perform tasks that require administrative or root permissions?

A:-chmod

B:-grep

C:-sudo

D:-root

Correct Answer:- Option-C

Question27:-What converts ac voltages into different dc outputs?

A:-HDMI

B:-SMPS

C:-SATA

D:-PATA

Correct Answer:- Option-B

Question28:-Which is an OS?

A:-Microsoft Word

B:-Microsoft Excel

C:-Microsoft Windows

D:-Microsoft Access

Correct Answer:- Option-C

Question29:-Which linux command edits user account fields and specify primary and secondary group membership?

A:-passwd

B:-usermod

C:-chpasswd

D:-chmod

Correct Answer:- Option-B

Question30:-Write the linux command to remove the users home directory along with users mail directory.

A:-userdel-r

B:-userdel-l

C:-userdel-p

D:-userdel-m

Correct Answer:- Option-A

Question31:-Name the linux directory that stores users personal files, directories and programs which is accessible by system administrators and users.

A:-/bin

B:-/home

C:-/root

D:-/usr

Correct Answer:- Option-B

Question32:-Write the linux command to rename a file.

A:-rm

B:-rn

C:-mv

D:-cp

Correct Answer:- Option-C

Question33:-Which is the fastest memory that stores instruction codes and data which are to be Currently executed by the CPU?

A:-RAM

B:-Cache

C:-Hardisk

D:-ROM

Correct Answer:- Option-B

Question34:-Which of the following is not a pointing device?

A:-Mouse

B:-Joystick

C:-Light pen

D:-Digitizer

Correct Answer:- Option-D

Question35:-OCR stands for

A:-Outsized Character Reader

B:-Optical Character Reader

C:-Operational Character Reader

D:-Only Character Reader

Correct Answer:- Option-B

Question36:-BIOS means

A:-Basic Input Output System

B:-Binary Input Output System

C:-Basic Information Output System

D:-Binary Information Outputing System

Correct Answer:- Option-A

Question37:-Which is the subset of the chipset responsible for providing support to the onboard slower peripherals and managing their communications with the rest of the computer?

A:-North bridge

B:-South bridge

C:-Front side bus

D:-Back side bus

Correct Answer:- Option-B

Question38:-Full form of SCSI

A:-Storage Computer System Interface

B:-Small Computer Storage Interface

C:-Small Computer System Interface

D:-Standard Computer System Interface

Correct Answer:- Option-C

Question39:-A deadlock situation arise if the following condition arises

A:-Mutual Exclusion

B:-Hold and wait

C:-No preemption

D:-All the above

Correct Answer:- Option-D

Question40:-Synchronization tool used to overcome the critical section problem

A:-Deadlock

B:-Segmentation

C:-Semaphore

D:-Swapping

Correct Answer:- Option-C

Question41:-Expansion card that connects a computer to a network

A:-Network Interface Card

B:-Modem

C:-Router

D:-Switch

Correct Answer:- Option-A

Question42:-Which is execution time memory?

A:-Cache

B:-RAM

C:-ROM

D:-Hard disk

Correct Answer:- Option-B

Question43:-Bootting is the process of loading

A:-Application software

B:-POST

C:-Operating System

D:-BIOS

Correct Answer:- Option-C

Question44:-What is the full form of HDMI?

A:-High-Definition Media Interface

B:-High-Data Multimedia Input

C:-High-Definition Media Input

D:-High-Definition Multimedia Interface

Correct Answer:- Option-D

Question45:-Which is the internal command of DOS?

A:-date

B:-delete

C:-time

D:-all the above

Correct Answer:- Option-D

Question46:-Which of the following layer of ISO OSI reference model is responsible for Source-to-destination delivery of packets across multiple networks?

A:-Data link layer

B:-Transport layer

C:-Network layer

D:-Physical layer

Correct Answer:- Option-C

Question47:-How many wires are there in a Category 5 cable?

A:-4 wires

B:-6 wires

C:-10 wires

D:-8 wires

Correct Answer:- Option-D

Question48:-Which of the following IP address is used for loop back testing?

A:-127.0.01

B:-128.0.0.0

C:-255.255.255.255

D:-All the above

Correct Answer:- Option-A

Question49:-Which of the following is a Multiple Access Protocol?

A:-ALOHA

B:-UDP

C:-TCP

D:-FTP

Correct Answer:- Option-A

Question50:-CSMA stands for

A:-Circuit Sense Multiple Access

B:-Carrier Sense Multiple Access

C:-Carrier Separated Multiple Access

D:-Circuit Switched Multiple Access

Correct Answer:- Option-B

Question51:-Cross connected Registered Jack-45 cable is used to connect which of the following devices in a LAN

A:-Computer and Modem

B:-Computer to Computer

C:-Computer and Switch

D:-All the above

Correct Answer:- Option-B

Question52:-Which of the following is a class C IP address?

A:-192.0.0.5

B:-200.255.255.255

C:-210.255.255.0

D:-All the above

Correct Answer:- Option-D

Question53:-Wired Equivalent Privacy is protocol used in

A:-WiFi

B:-LAN

C:-Token Ring

D:-None of these

Correct Answer:- Option-A

Question54:-The default subnet mask 255.255.255.0 is a

A:-Class A network

B:-Class B network

C:-Class C network

D:-Class D network

Correct Answer:- Option-C

Question55:-Which of the following a correct statement?

A:-TCP is a connection less protocol and IP is a connection oriented protocol

B:-TCP is a connection oriented protocol and IP is a connection less protocol

C:-Both TCP and IP are connection oriented protocols

D:-Both TCP and IP are connection less protocols

Correct Answer:- Option-B

Question56:-Which of the following is an Internet Service?

A:-Telnet

B:-E-mail

C:-Internet Telephony

D:-All the above

Correct Answer:- Option-D

Question57:-Which one changes the link-layer address of the source and destination packets?

A:-Router

B:-Switch

C:-Both Router and Switch

D:-Repeater

Correct Answer:- Option-A

Question58:-WiFi is an IEEE _____ WLAN

A:-802.11 Standard

B:-802.5 Standard

C:-802.3 Standard

D:-802.4 Standard

Correct Answer:- Option-A

Question59:-Which one regenerates the signal, check the network physical address of packets and check the network layer address?

A:-Network Interface Card

B:-Router

C:-Switch

D:-Repeater

Correct Answer:- Option-B

Question60:-Which of the following network topology uses less cabling?

A:-Ring Topology

B:-Star Topology

C:-Bus Topology

D:-Mesh Topology

Correct Answer:- Option-C

Question61:-No of bits a subnet mask contains

A:-8 bits

B:-16 bits

C:-24 bits

D:-32 bits

Correct Answer:- Option-D

Question62:-Which protocol carries file requests from web browser clients to web servers and the files from the servers to client?

A:-SMTP

B:-SNMP

C:-DHCP

D:-HTTP

Correct Answer:- Option-D

Question63:-Linux command used for checking the network connectivity between two nodes.

A:-netstat

B:-tracert

C:-ping

D:-ifconfig

Correct Answer:- Option-C

Question64:-Forwarding the frame into its different ports, after checking the source and destination address of a frame, is the responsibility of

A:-Router

B:-Switch

C:-Repeater

D:-All the above

Correct Answer:- Option-B

Question65:-Which Linux command is used to configure the wireless network interface. It is used to set and view the basic WI-FI details like SSID and encryption?

A:-ping

B:-host

C:-ifconfig

D:-iwconfig

Correct Answer:- Option-D

Question66:-Which of the following is suitable to display same as $k = \log_b(b^k)$?

A:- $k = \log_{\text{base}}(\text{base}^k)$

B:- $k = \log_b(b^k)$

C:- $k = \log(b^k)$

D:- $k = \log_b(b^k)$

Correct Answer:- Option-D

Question67:-Which of the following is used to override the text "Good Morning" from right to left?

A:-`<p dir="rtl">Good Morning</p>`

B:-`<marquee direction="left">Good Morning</marquee>`

C:-`<bdo dir="rtl">Good Morning</bdo>`

D:-<p style="text-align:right">Good Morning</p>

Correct Answer:- Option-C

Question68:-Which of the following is used to embed <http://www.kerala.gov.in> webpage in the current webpage?

A:-<url="http://www.kerala.gov.in">Kerala Government</url>

B:-<link="http://www.kerala.gov.in">Kerala Government</link>

C:-<iframe src=""http://www.kerala.gov.in" title="Kerala Government"></iframe>

D:-Kerala Government

Correct Answer:- Option-C

Question69:-Which of the following is most suitable for restricting input to 20 characters?

A:-<input type="text" maxlength="20"/>

B:-<input type="text" size="20"/>

C:-<input type="text" maxsize="20"/>

D:-<input type="text" length="20"/>

Correct Answer:- Option-A

Question70:-What is the use of alt attribute of tag?

A:-To specify a message when the browser is unable to display the image

B:-To specify the path of the image

C:-To specify the description of the image

D:-To specify image size for different page layouts

Correct Answer:- Option-A

Question71:-What will show on executing the following JavaScript?

```
<script>
  window.alert (('5'==5) ? (('1'==1) ? 5+2:5-2):
  (('0'===0) ? 5*2:5/2));
</script>
```

A:-7

B:-3

C:-10

D:-2.5

Correct Answer:- Option-B

Question72:-What will be the value of x after executing the following JavaScript statement?

```
var x=20+/0/.exec("2020")+22;
```

A:-2022

B:-20022

C:-202222

D:-22222

Correct Answer:- Option-B

Question73:-What is the output of the following JavaScript?

```
<script>
  function a(x){ window.alert(x++);}
  function y(a,x){ x(++a);}
  y(5,a);
</script>
```

A:-5

B:-6

C:-7

D:-8

Correct Answer:- Option-B

Question74:-What will be the result of the following JavaScript?

```
<script>
  var s=0;
  function a(x){
    if(x%2) s+=x;
    if(x>0)a(--x);
    else return(0);
    return(s);
  }
  window.alert(a(5));
</script>
```

A:-15

B:-9

C:-6

D:-2

Correct Answer:- Option-B

Question75:-What will be the output of the following JavaScript?

A:-43

B:-41

C:-32

D:-21

Correct Answer:- Option-C

Question76:-The output of the following script is

```
<?php
echo substr("Kerala State",strpos("Kerala Government","Kerala"));
```

A:-Kerala State

B:-Kerala Government

C:-State Government

D:-Kerala State Government

Correct Answer:- Option-A

Question77:-What will be the output of the following script?

```
$a=-1
while ($a++){
    echo "$a";}
echo $a;
?>
```

A:--1

B:-0

C:--10

D:-01

Correct Answer:- Option-D

Question78:-What is the difference between include and require statements in PHP?

A:-require will produce a fatal error and stop the script, while include will only produce a warning and the script will continue

B:-include will produce a fatal error and stop the script, while require will only produce a warning and the script will continue

C:-require will produce a fatal error and the script will continue, while include will only produce a warning and stop the script

D:-require will produce a warning and stop the script, while include will only produce a fatal error and the script will continue

Correct Answer:- Option-A

Question79:-Which of the following is used in PHP to invoke a method?

A:-\$object.methodname()

B:-\$object.\$methodname()

C:-\$object->methodname()

D:-\$object->\$methodname()

Correct Answer:- Option-C

Question80:-Which feature of PHP allows calling one or more methods in single instruction?

A:-method adding

B:-method overloading

C:-method overriding

D:-method chaining

Correct Answer:- Option-D

Question81:-Which of the following VBScript event occurs when the element loses focus?

A:-onmouseout

B:-onmouseover

C:-onblur

D:-onfocus

Correct Answer:- Option-C

Question82:-Which of the following VBScript function is used to test if a variable is uninitialized?

A:-IsNull()

B:-IsEmpty()

C:-IsNothing()

D:-IsObject()

Correct Answer:- Option-B

Question83:-If A=10 and B=2, what is the value of C in the VBScript statement C=A & B?

A:-2

B:-10

C:-12

D:-102

Correct Answer:- Option-D

Question84:-Which of the following VBScript function is used to get the last occurrence of one string within another string?

A:-InStr

B:-InstrRev

C:-Right

D:-Rtrim

Correct Answer:- Option-B

Question85:-Which of the following operator is used in VBScript to find the remainder of integer division?

A:-/

B:-%

C:-MOD

D:-REM

Correct Answer:- Option-C

Question86:-Which of the following method is used to find HTML elements?

A:-document.getElementById()

B:-document.getElementsByTagName()

C:-document.getElementsByClassName()

D:-All of the above

Correct Answer:- Option-A

Question87:-Which of the following is used to return all <a> elements that have a href attribute?

A:-document.URL

B:-document.Anchors

C:-document.Rferrer

D:-document.links

Correct Answer:- Option-D

Question88:-In what way DOM represents a webpage?

A:-Dynamic structure

B:-Document structure

C:-Object structure

D:-Tree-like structure

Correct Answer:- Option-D

Question89:-Which of the following object has information about which browser is being used?

A:-Navigator

B:-Windows

C:-Document

D:-Frame

Correct Answer:- Option-A

Question90:-Which of the following defines a standard set of objects for any structured document?

A:-HTML DOM

B:-Core DOM

C:-XML DOM

D:-Base DOM

Correct Answer:- Option-B

Question91:-Which printer part gets the toner from the photosensitive drum onto the paper?

A:-Fusing assembly

B:-Transfer corona assembly

C:-Laser scanning assembly

D:-Drum

Correct Answer:- Option-B

Question92:-What is printing in duplex?

A:-Printing on both sides of the paper

B:-Printer collation

C:-Two-way printer communication

D:-Printing to file

Correct Answer:- Option-A

Question93:-Which stage of the laser printing process involves extreme heat?

A:-Exposing

B:-Transferring

C:-Fusing

D:-Writing

Correct Answer:- Option-C

Question94:-Which of the following feeder mechanism Laser Printer uses?

A:-Continuous tractor feed

B:-Continuous form feed

C:-Friction feed

D:-Injected

Correct Answer:- Option-C

Question95:-What is the proper order of the laser printing process?

A:-Process, charge, expose, develop, transfer, fuse and clean

B:-Clean, expose, develop, transfer, process, fuse and charge

C:-Clean, charge, expose, process, develop, fuse and transfer

D:-Process, clean, charge, expose, develop, transfer and fuse

Correct Answer:- Option-D

Question96:-What part must be vacuumed or replaced periodically to prevent damage caused by the action of the corona?

A:-The ozone filter

B:-The rubber rollers

C:-The transfer filter

D:-The cleaning blade

Correct Answer:- Option-A

Question97:-Which component in the laser printer prepares the image on the photosensitive drum?

A:-Toner

B:-Laser imaging unit

C:-Transfer corona

D:-Primary corona

Correct Answer:- Option-D

Question98:-At what voltage does the secondary corona wire charge the paper?

A:--600V

B:-+600V

C:--100V

D:-+100V

Correct Answer:- Option-B

Question99:-Which of the following is not a function of a typical multi function printer?

A:-Copy

B:-Scan

C:-Fax

D:-Barcode Scanner

Correct Answer:- Option-D

Question100:-What is the need for a fuser unit in a laser printer?

A:-To permanently bond toner to a substrate by applying heat and pressure

B:-To transfer images on to paper

C:-To give positive charge to drum

D:-To draw the toner off the drum onto the paper

Correct Answer:- Option-A