

HIGHER SECONDARY FIRST YEAR

PUBLIC EXAMINATION March 2024

COMPUTER APPLICATIONS ANSWER KEY

PART-I

Answer All the Questions

MARKS:15

Q. NO	OPTION	ANSWER
1	d	RAM
2	b	32
3	b	Pentium IV
4	b	ext2
5	c	Format
6	c	625
7	d	F5
8	a	WLAN
9	d	<body>
10	b	Name
11	d	SVG
12	d	Dynamic Hyper Text Markup Language
13	c	Switch
14	c	Local variable
15	d	Decryption

kindly send me your key Answers to our email id - padasalai.net@gmail.com

**PART-II**

Answer any six questions. Question no 24 is compulsory

6x2=12

16.	<ul style="list-style-type: none"> <li>The control unit controls the flow of data between the CPU, memory and I/O devices.</li> <li>It also controls the entire operation of a computer</li> </ul>	2																				
17.	<p>(7)</p> $\begin{array}{r} 2 \overline{) 46} \\ \underline{23} \phantom{0} \\ 2 \phantom{0} \phantom{0} \\ \underline{11} \phantom{0} \\ 2 \phantom{0} \phantom{0} \\ \underline{5} \phantom{0} \\ 2 \phantom{0} \phantom{0} \\ \underline{2} \phantom{0} \\ 1 \phantom{0} \phantom{0} \end{array}$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <math>(46)_{10} = (101110)_2</math> </div>	2																				
18.	<ul style="list-style-type: none"> <li>➤ UNIX</li> <li>➤ Microsoft Windows</li> <li>➤ Linux</li> </ul>	2																				
19.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Proprietary source Word processing software</th> </tr> <tr> <th>Package</th> <th>Developer</th> </tr> </thead> <tbody> <tr> <td>Microsoft Word</td> <td>Microsoft Corporation</td> </tr> <tr> <td>WPS Word</td> <td>Kingsoft</td> </tr> <tr> <td>WordPro</td> <td>Lotus Corporation</td> </tr> <tr> <th colspan="2">Open Source Word processing software</th> </tr> <tr> <th>Package</th> <th>Developer</th> </tr> <tr> <td>OpenOffice Writer</td> <td>Apache</td> </tr> <tr> <td>LibreOffice Writer</td> <td>The document foundation</td> </tr> <tr> <td>Abiword</td> <td>Abisource</td> </tr> </tbody> </table>	Proprietary source Word processing software		Package	Developer	Microsoft Word	Microsoft Corporation	WPS Word	Kingsoft	WordPro	Lotus Corporation	Open Source Word processing software		Package	Developer	OpenOffice Writer	Apache	LibreOffice Writer	The document foundation	Abiword	Abisource	2
Proprietary source Word processing software																						
Package	Developer																					
Microsoft Word	Microsoft Corporation																					
WPS Word	Kingsoft																					
WordPro	Lotus Corporation																					
Open Source Word processing software																						
Package	Developer																					
OpenOffice Writer	Apache																					
LibreOffice Writer	The document foundation																					
Abiword	Abisource																					
20.	<p>A template is a predefined design of a presentation on a particular topic which is created for a new presentation</p>	2																				
21.	<p>Phishing scams are fraudulent attempts by cybercriminals to obtain private information. Phishing scams often appear in the guise of email messages designed to appear as though they are from legitimate sources</p> <p style="text-align: center;">(OR)</p> <p><i>Phishing scams are fraudulent attempts by cybercriminals to obtain private information</i></p> <p style="text-align: center;">(OR)</p>	2																				

	Phishing is a type of computer crime used to attack, steal user data, including login name, password and credit card numbers etc. through emails	
22.	1. Numbered List / Ordered List 2. Un-numbered List / Unordered List 3. Definition List	2
23.	➤ Google ➤ Yahoo ➤ Bing (Any two)	2
24.	A cyber-crime is a crime which involves computer and network. This is becoming a growing threat to society. (OR) Cybercrime is an intellectual, white-collar crime. Those who commit such crimes generally manipulate the computer system in an intelligent manner. For example – illegal money transfer via internet	2

**PART-III**

Answer any six questions. Question no 33 is compulsory

6x3=18

25.	Reduced Instruction Set Computers (RISC)  Complex Instruction Set Computers (CISC)	3
26.	<b>Method I:</b> <ul style="list-style-type: none"> <li>• Open <b>Computer Icon</b>. Open any drive where you want to create a new folder.</li> <li>• Click on File → New → Folder, : Type in the folder name and press Enter key.</li> </ul> <b>Method II:</b> <ul style="list-style-type: none"> <li>• Right click → New → Folder.</li> </ul>	3
27.	$=\frac{A1+A2+A3}{3}$ (OR) $=\text{average}(A1:A3)=62.7\%$	3
28.	<html> tag has two attributes <b>dir</b> and <b>lang</b> to specify the <b>text direction</b> and <b>language setting</b> respectively.	3
29.	❖ The important attributes used with the <form> tag are <b>method and action</b> attributes. <b>Method</b> ❖ The method attribute is used to identify how the form element names and values will be sent to the server. ❖ The <b>get</b> method will append the names of the form elements and their values to	3

	<p>the URL.</p> <ul style="list-style-type: none"><li>❖ The <b>post</b> method will send the names and values of the form elements as packets.</li></ul> <p><b>Action</b></p> <ul style="list-style-type: none"><li>❖ The <b>action</b> attribute identifies the server side program or script that will process the form CGI</li></ul>	
30	<ul style="list-style-type: none"><li>• Maintainability.</li><li>• Reusability</li><li>• Easy to understand</li></ul>	<b>3</b>
31.	<p>A <b>string</b> is a list of characters, and a string literal is indicated by enclosing the characters in single or double quotes.</p> <ul style="list-style-type: none"><li>• <b>Numbers</b> can be integer or floating-point numerical value and numeric literals are specified in the natural way.</li><li>• <b>Boolean</b> can be any one of two values: <b>true</b> or <b>false</b></li></ul>	<b>3</b>
32.	<p>function is a block of JavaScript code that is defined once but may be executed or invoked any number of times. Functions are used to encapsulate code that performs a specific task.</p> <p>JavaScript supports two types functions. They are</p> <ul style="list-style-type: none"><li>• Pre-defined or Library Functions</li><li>• User-defined Functions</li></ul>	<b>2</b> <b>1</b>

33.

33) Add: a)  $(-20)_{10} + (25)_{10}$ 

$$\begin{array}{r} 2 \overline{) 20} \\ 2 \overline{) 10-0} \\ 2 \overline{) 5-0} \\ 2 \overline{) 2-1} \\ \hline 1-0 \end{array}$$

$$\begin{array}{r} 2 \overline{) 25} \\ 2 \overline{) 12-1} \\ 2 \overline{) 6-0} \\ 2 \overline{) 3-0} \\ \hline 1-1 \end{array}$$

Binary representation of  $(20)_{10} = (10100)_2$ 

8 bit representation = 00010100

1's complement = 11101011

2's complement =  $\begin{array}{r} 1 \\ \hline 11101100 \end{array}$ Binary representation  $(25)_{10} = (11001)_2$ 

8 bit representation = 00011001

$$\begin{array}{r} (-20)_{10} + (25)_{10} = \\ \begin{array}{r} 11101100 \\ 00011001 \\ \hline 10000101 \end{array} \end{array}$$

 $(-20)_{10} + (25)_{10} = (10000101)_2$ 1<sup>1/2</sup>

b)

$$\begin{array}{r}
 2 \overline{) 22} \\
 \underline{20} \phantom{0} \\
 2 \phantom{0} - 0 \\
 \hline
 2 \overline{) 5} - 1 \\
 \underline{4} \phantom{0} \\
 2 \phantom{0} - 1 \\
 \underline{2} \phantom{0} \\
 1 - 0
 \end{array}
 \qquad
 \begin{array}{r}
 2 \overline{) 15} \\
 \underline{14} \phantom{0} \\
 2 \phantom{0} - 1 \\
 \hline
 2 \overline{) 3} - 1 \\
 \underline{2} \phantom{0} \\
 1 - 1
 \end{array}$$

Binary representation of  $(22)_{10} = (10110)_2$

Add 8 bits  $\Rightarrow 00010110$

Binary representation of  $(15)_{10} = 1111$

Add 8 bits  $\Rightarrow 00001111$

$$(22)_{10} + (15)_{10} = \begin{array}{r} 00010110 \\ 00001111 \\ \hline 00100101 \end{array}$$

$$00001111$$

$$\hline 00100101$$

$$(22)_{10} + (15)_{10} = (00100101)_2$$

1<sup>1/2</sup>

## PART-IV

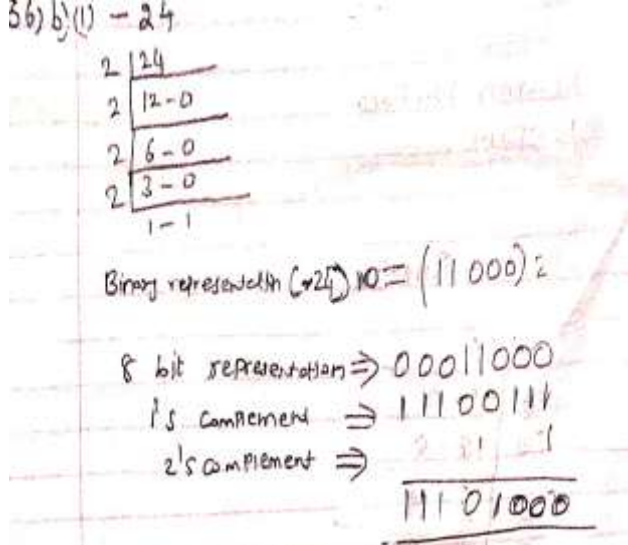
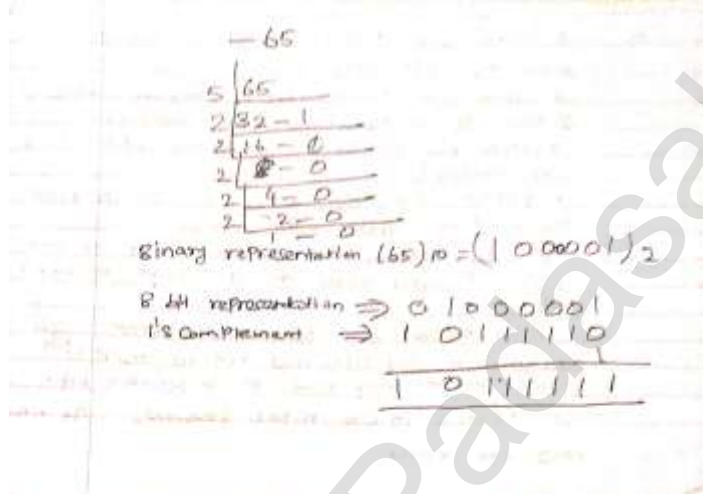
Answer all questions.

5x5=25

34 a)	<p><b>(i) Bar Code / QR Code Reader:</b> A Bar code is a pattern printed in lines of different thickness. The Bar code reader scans the information on the bar codes transmits to the Computer for further processing. The system gives fast and error free entry of information into the computer.</p> <p><b>QR (Quick response) Code:</b> The QR code is the two dimension bar code which can be read by a camera and processed to interpret the image</p> <p><b>(ii) Inkjet Printers</b> Inkjet Printers use colour cartridges which combined Magenta, Yellow and Cyan inks to create color tones. A black cartridge is also used for monochrome output. Inkjet printers work by spraying ionized ink at a sheet of paper. The speed of Inkjet printers generally range from 1-20 PPM (Page Per Minute).</p> <p><b>(iii) Multimedia Projectors:</b> Multimedia projectors are used to produce computer output on a big screen. These are used to display presentations in meeting halls or in classrooms.</p>	5
b)	<p>ROM-Read Only Memory PROM-Programmable Read Only Memory EPROM-Erasable Programmable Read Only Memory EEPROM-Electrical Erasable Programmable Read Only Memory</p> <p><b>Explain the above types of ROM</b></p>	2 3
35.a)	<p>The <b>Header</b> is a section of the document that appears in the <b>top margin</b>, which displays the title or chapter name, author name of a document.</p> <p>The <b>Footer</b> is a section of the document that appears in the <b>bottom margin</b> of the page which displays the page number, date, time etc. which gets displayed on all the pages automatically.</p> <p>Insert page numbers in footer area</p> <p>steps</p>	2 3

<p>b)</p>	<p>(Explain any five)</p> <p>Wireless Mobile Hotspots Broadband DSL Cable Satellite ISDN Dongles / Data Card</p>	<p>5</p>
<p>36.a)</p>	<ol style="list-style-type: none"> <li>1. The user interface should enable the user to retain this expertise for a longer time.</li> <li>2. The user interface should also satisfy the customer based on their needs.</li> <li>3. The user interface should save user's precious time.</li> <li>4. The ultimate aim of any product is to satisfy the customer. The User Interface is also to satisfy the customer.</li> <li>5. The user interface should reduce number of errors committed by the user</li> </ol>	<p>5</p>
<p>b)</p>	<p>36) b) i) <math>(58.46)_{10}</math></p> <p><u>Integer part:</u></p> $\begin{array}{r} 2 \overline{) 58} \\ \underline{2 \ 29 - 0} \\ 2 \ 14 - 1 \\ \underline{2 \ 7 - 0} \\ 2 \ 3 - 1 \\ \underline{1 - 1} \end{array}$ <p><math>(58)_{10} = (111010)_2</math></p> <p><u>Fractional part</u></p> <p><math>(0.46)_{10}</math></p> $\begin{array}{l} 0.46 \times 2 = 0.92 = 0 \\ 0.92 \times 2 = 1.84 = 1 \\ 0.84 \times 2 = 1.68 = 1 \\ 0.68 \times 2 = 1.36 = 1 \\ 0.36 \times 2 = 0.72 = 0 \\ 0.72 \times 2 = 1.44 = 1 \end{array}$ <p><math>(0.46)_{10} = (011101)_2</math></p> <p><math>(58.46)_{10} = (111010.011101)_2</math></p>	<p>2</p>



	 <p>36) b) (i) -24</p> <p>2   24          2   12-0          2   6-0          2   3-0          1-1</p> <p>Binary representation <math>(-24)_{10} = (11000)_2</math></p> <p>8 bit representation <math>\Rightarrow 00011000</math>          1's complement <math>\Rightarrow 11100111</math>          2's complement <math>\Rightarrow 1101000</math></p>	<p>1<sup>1/2</sup></p>
	 <p>-65</p> <p>5   65          2   32-1          2   16-0          2   8-0          2   4-0          2   2-0          1-0</p> <p>Binary representation <math>(65)_{10} = (100001)_2</math></p> <p>8 bit representation <math>\Rightarrow 01000001</math>          1's complement <math>\Rightarrow 10111110</math>          2's complement <math>\Rightarrow 10111111</math></p>	<p>1<sup>1/2</sup></p>
<p>37.a)</p>	<p><b>Links:</b></p> <p>Link is an important feature of HTML to connect web resources. Link in HTML is used to create hyperlinks to web content. Web content may be an HTML document or an external webpage or any multimedia content such as an image, video, audio, animation etc., or even a part of the current document</p> <p><b>Types of Links:</b>  <b>Internal, External links</b></p> <p><b>Explanation</b></p>	<p>2</p> <p>3</p>
<p>b.</p>	<p>JavaScript supports three kind of popup boxes:</p> <p>Alert box, Confirm box, and Prompt box.</p> <p>Explanation</p>	<p>1</p> <p>4</p>

