

DIRECTORATE OF GOVERNMENT EXAMINATIONS, CHENNAI-6.
HSE FIRST YEAR EXAMINATION, MARCH - 2024
COMPUTER APPLICATIONS - ANSWER KEY

NOTE:

1. Answer written in BLACK or BLUE ink pen should be evaluated.
2. Choose the correct answer and write the option code.
3. In one of them (option or answer) is wrong, then award zero mark only.

Maximum Marks : 70

PART - I

Answer All Questions :

15×1=15

S.No.	Option	Answer	Mark
1	(d)	RAM	1
2	(b)	32	1
3	(b)	Pentium IV	1
4	(b)	ext2	1
5	(c)	Format	1
6	(c)	625	1
7	(d)	F5	1
8	(a)	WLAN	1
9	(d)	<body>	1
10	(b)	Name	1
11	(d)	SVG	1
12	(d)	Dynamic Hyper Text Markup Language	1
13	(c)	switch	1
14	(c)	Local variable	1
15	(d)	Decryption	1

PART – II

Answer **Any Six** Questions.
Question No. **24** is **compulsory**

6×2=12

Q.No	ANSWER	Marks
16	<p><u>Functions of Control unit:</u></p> <ul style="list-style-type: none">• The control unit controls the flow of data between the CPU, memory and I/O devices. <p>(OR)</p> <ul style="list-style-type: none">• It also controls the entire operation of a computer.	2
17	$(46)_{10} = (101110)_2$	2
18	Any Two Operating Systems.	2
19	Any Two valid differences.	2
20	<p>Design already created as the basis for a new presentation.</p> <p>(or)</p> <p>Premade design used to create a new presentation</p>	2
21	<p><u>Phishing:</u></p> <p>Phishing is a type of computer crime used to attack, steal user data, including login name, password and credit card numbers etc through emails.</p> <p>(or)</p> <p>Phishing scams are fraudulent attempts by cyber criminals to obtain private information.</p>	2
22	<p><u>Three Lists in HTML:</u></p> <ol style="list-style-type: none">1. Numbered List / Ordered List2. Un-numbered List / Unordered List3. Definition List	2
23	<p><u>Tamil Search engines:</u></p> <ol style="list-style-type: none">1. Google2. Bing <p>(OR)</p> <p>Any Two suitable Search Engine names.</p>	2
24	<p><u>Cyber crime:</u></p> <p>A cybercrime is a crime which involves computer and network.</p> <p>(OR)</p> <p>Cybercrime is an intellectual, white-collar crime. Those who commit such crimes generally manipulate the computer system in an intelligent manner.</p>	2

PART – III

Answer **Any Six** Questions.

Question No. **33** is **compulsory**

6×3=18

Q.No	ANSWER	Marks
25	<p><u>Classification of Microprocessors based on Instruction Set:</u></p> <ul style="list-style-type: none"> • Reduced Instruction Set Computers (RISC) • Complex Instruction Set Computers (CISC) 	<p align="right">1½</p> <p align="right">1½</p>
26	<p><u>Method I:</u></p> <ul style="list-style-type: none"> • Open Computer Icon, File → New → Folder <p><u>Method II:</u></p> <ul style="list-style-type: none"> • On the Desktop, right click → New → Folder. <p align="center">(OR)</p> <p align="center">(Any other Two suitable methods)</p>	<p align="right">1½</p> <p align="right">1½</p>
27	<p>= (A1+A2+A3) / 3 (Or) = AVERAGE(A1:A3) (Or) = SUM(A1:A3) / 3</p> <p align="center">(OR)</p> <p align="center">(Any other valid Formula)</p>	3
28	<p>dir attribute :</p> <p>specifies the direction of the text to be aligned within the entire document. It is global attribute.</p> <p>lang attribute :</p> <p>specify the language used within the document. Predefined language code will be used for this purpose.</p>	<p align="right">1½</p> <p align="right">1½</p>
29	<p><u>Method:</u></p> <p>Method attribute of the form tag is used to identify how the form element names and values will be sent to the server.</p> <p><u>Action:</u></p> <p>The action attribute identifies the server side program or script that will process the form.</p>	<p align="right">1½</p> <p align="right">1½</p>
30	<p><u>Advantages of CSS:</u></p> <ol style="list-style-type: none"> 1. Maintainability 2. Reusability 3. Easy to understand <p>For explanation of the above</p>	<p align="right">1</p> <p align="right">2</p>

Q.No	ANSWER	Marks
31	1. Strings, 2. Numbers, 3. Booleans. String : A string is a list of characters. Numbers : Numbers can be integer or floating-point numerical value Boolean : Boolean can be any one of two values: true or false.	1 2
32	Function: A function is a block of JavaScript code that is defined once but may be executed or invoked any number of times. JavaScript supports two types of functions. • Pre-defined or Library Functions • User-defined Functions	1½ 1½
33	(a) 100000101 ₂ (or) 00000101 ₂ (or) 101 ₂ (b) 100101 ₂ (or) 00100101 ₂	1½ 1½

PART– IV

Answer **All** Questions

5×5=25

Q.No	ANSWER	Marks
34 (a)	I. Bar Code / QR Code Reader II. Inkjet Printers III. Multimedia Projectors (with brief explanation)	2 2 1
	(OR)	
(b)	1. Programmable Read Only Memory(PROM) 2. Erasable Programmable Read Only Memory (EPROM) 3. Electrically Erasable Programmable Read Only Memory (EEPROM) Brief explanation of the above	2 3
35 (a)	Header: is a section of the document that appears in the top margin. Footer: is a section of the document that appears in the bottom margin. Inserting page numbers: • Place the insertion pointer in the footer area. • Insert → Fields → Page Number	1 ½ 1 ½ 2
	(OR)	

Q.No	ANSWER	Marks
35	<p><u>Five types of Internet Services:</u> (Any five)</p> <ol style="list-style-type: none"> 1. Wireless 2. Mobile 3. Hotspots 4. Broadband 5. DSL 6. Cable 7. Satellite 8. ISDN 9. Dongles / Data Card <p>(Explain any 5)</p>	<p>2</p> <p>3</p>
36	<p><u>Points to be noted while creating User Interface:</u></p> <ol style="list-style-type: none"> 1. Enable the user to retain this expertise for a longer time. 2. Satisfy the customer based on their needs. 3. Save user's precious time. 4. Satisfy the customer. 5. Reduce number of errors committed by the user. 	5
	(OR)	
(b)	<p>(i) $(58.46)_{10} = (111010.0111\dots)_2$</p> <p>(ii) (1) 1's Complement of (-24) = $(11100111)_2$ 2's Complement of (-24) = $(11101000)_2$</p> <p>(2) 1's Complement of (-65) = $(10111110)_2$ 2's Complement of (-65) = $(10111111)_2$</p>	<p>3</p> <p>1</p> <p>1</p>

Q.No	ANSWER	Marks
37 (a)	<p><u>Links:</u> Link is an important feature of HTML to connect web resources. (OR) Link in HTML is used to create hyperlinks to web content. (OR) Make connection with a part of content of same document or an external document.</p> <p><u>Types of Links:</u> 1. Internal Links 2. External Links</p> <p>Explanation of the above types</p>	2 1 2
(OR)		
(b)	<p><u>JavaScript supports three kind of popup boxes:</u></p> <ul style="list-style-type: none"> • Alert box • Confirm box • Prompt box. <p>Explanation of the above.</p>	1 4
38 (a)	<p><u>The different ways of finding a file or folder (2 ways):</u></p> <ol style="list-style-type: none"> 1. Using search box – Brief explanation. 2. Using computer icon – Brief explanation. <p>(OR)</p> <p>Any two suitable methods</p>	2 ½ 2 ½
(OR)		
(b)	<p><u>Different types of cyber attacks:</u></p> <ol style="list-style-type: none"> 1. Virus 2. Worms 3. Spyware 4. Ransomware <p>Explanation of the above.</p>	2 3