Central Board of School Education

Marking Scheme 2016

[Official]

Important Note:

- All answers provided in the Marking scheme are SUGGESTIVE.
- Examiners are requested to accept all possible alternative correct answer(s).
- Wherever HTML Tags are asked ignore the format/additional arguments if so given in the answer(s)
- Wherever multiple answers are suggested, they are in order of appropriateness

				SECTION A			
Q1.	(a)			APPS of a Database the questions that fo Table:	ollow:	roid Apps given	below
			AppCode	AppName	Appusers	AppUse	
			101	Instagram	300000	Social Media	
			102	Google Play Music	150000	Free Music	
			103	Viber	2000	Free Music	
			104	Dropbox	350000	Free Storage	
			105	Ola Cabs	900	Taxi Booking	
			T	(
		(i)		bove data in mind, s de and AppUsers attr			
		(ii)	What is the de	egree and the cardina	ality of the ta	ible APPS ?	1
		(iii)	Which attribu	te can act as the Prir	mary key for	the table APPS ?	1
		(iv)	that will sto	oute named Applntrol re the introduction ata type that should	Date, then	suggest the mos	
		(v)	What will be t	the extension of this	table APPS cr	reated in Access ?	1
	Ans	(ii) E (¹ / ₂ (iii) A	ttribute AppUs 2 mark for eac Degree - 4 ardinality- 5 2 mark for degr ppCode can act	ode Data type - Au er Data type - Nu ch correct data type ree and ½ for cardin as the Primary Key ning the Primary Key	mber •) nality)		

		 (iv) Date/Time is most appropriate data type that should be used for this new attribute. (1 mark for naming the correct data type) (v) .accdb or .mdb or .mdbx is the extension of table APPS created in Access. (1 mark for naming any of the extension) 	
	(b)	Sushi is a trainer who wants to prepare her students for air hostess course using simulated aeroplane environment. Which of the following multimedia technology will help her achieve this: (1) Video Telephony (2) Virtual Reality (3) Video Conferencing	1
	Ans.	Virtual Reality (1 mark for correct answer)	
	(C)	Name any two types of tweening.	2
	Ans.	 (i) Motion Tweening (ii) Shape Tweening OR Text Tweening (1 mark each for naming any two tweening types) 	
	(d)	Enumerate any two applications of multimedia in education.	2
	Ans.	 > used for distance education > online study material > educational CD > multimedia encyclopedia (1 mark each for any two valid applications) 	
Q2.		Answer the following questions based on Macromedia Flash:	
	(a)	Observe the figure given below and answer the questions that follow:	
		(i) Name the feature depicted in the above scenario. 1	
		(ii) What does the arrow on the timeline marked by label A indicate? 1	
		(iii) What does the number 12.0 in the area labelled as B signify in the 1 above scenario?	
		(iv) How many layers are there in the above scenario? 1	
	Ans.	(i) Onion Skinning (1 mark for naming the correct feature)	
		(ii) Motion Tweening(1 mark for naming correct answer)	

	 (iii) It signifies frame rate per second OR It signifies the speed of the a (1 mark for the correct answer) (iv) One layer (1 mark for mentioning correct layer 		
(b)	Differentiate between the two types of	f sounds available in flash.	2
Ans.	Event Sounds	Stream Sounds	
	Must download completely before playing	Begin playing as soon as enough data for first few frames has been downloaded	
	Play in its entirety independent of timeline	Stops as soon as animation stops	
	(2 marks for any one correct different types) NOTE: 1 mark should be awarded if on	entiation point between the two sound ly one sound type has been explained	
(C)	Observe the image given below and do	as directed:	4
	 The graphic on the left hand sid 1. 	e shows the position and size for frame	
	30.	de shows the position and size for frame nation is saved in the flash library.	
	Write the procedure and property set Assume that the colour changes from o	tings for animating the above scenario. range to green during the animation.	
Ans	 graphic from the library on the Using arrow tool, select the image Select frame 30 from the timelie Using arrow tool select the image of the stage at the desired locat Select any frame between 1 and Select Create Motion tween 	ige and place it on the left hand side ne and Select Insert -> Keyframe ge and position it on the right hand side ion and then resize it	

r		1	
		layer.	
		 Select pencil tool and draw a motion path 	
		OR Any other equivalent method	
		(1/2 mark for each correct step)	
3		Answer the following questions based on HTML:	
	(a)	Fill in the blanks with structural tags to complete the basic structure of a HTML	2
		file.	
		<html></html>	
		<head></head>	
		<>>	
		<body></body>	
	Ans	<html></html>	
	AIIS	<head></head>	
		< <u>TITLE</u> > <u /TITLE>	
		<body></body>	
		NO	
		< <u>/BODY</u> >	
		(½ mark for filling each blank correctly)	
	(b)	Write the HTML code to generate the web page in the format shown:	8
		MUSIC OF INDIA	
		The mark of hote has a khotey granule guillenness and developed over sweet and. Mark in fields began a substepril part of a celevelupous life. It foreades	
		A: Hindowine Muse B: Create Muse • Fold, Music	
		Popular Music A. Film Music International Music Festivals	
		B. Indum Pop Misic Restrict Name Vome Portrait Month Viced and Sport Protival Namer Technary	
		Rainfus International FARS Fundow Londow Oxfore Definition France Department of the State	
		Consider the following points while writing the HTML code:	
		(1) The title of the webpage is "Music of India".	
		(2) The page background colour is beige.	
		(3) The heading is in Gabriola Font and blue in colour.	
		(4) The lines are orange and green in colour and 40% and 70% wide respectively.	
		(5) The image shown in music.jpg.	
		(6) The font used for rest of the page is "Lucida Bright" and colour used is	
		"Indigo" .	
		(7) The bulleted list items Classical Music, Folk Music and Popular Music are	
		hyperlinked to the pages Classical. html, folk.html and popular.html	
		respectively.	
		(8) Use an email link to the email id "moi@csoi.com" in the last line.	

Ans	<html></html>			
	<head></head>			
	<title> Music of India</title>			
	<body bgcolor="beige"></body>			
				
	<center></center>			
				
	<h1> MUSIC OF INDIA</h1>			
	<hr color="orange" width="40"/>			
				
	<pre><hr color="green" width="70"/></pre>			
	<p> The music of India has a history spanning a million and developed over</p>			
	several eras. Music in India began as an integral parts of socio-religious life. It			
	includes 			
	<ul type="disc">			
	 Classical Music 			
	<pre><u> <u> <u< pre=""> <u< pre=""></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u<></u></u></pre>			
	 Hindustani Music			
	 Carnatic Music			
	0L			
	 Folk Music 			
	 Popular Music 			
	<ol type="A">			
	 Film Music			
	 Indian Pop Music			
	0L			
	<table align="center" border="4" cellspacing="5"></table>			
	<caption> International Music Festival </caption>			
	<tr></tr>			
	<th> Festival Name</th> <th></th>	Festival Name		
	<th> Venue <th> Festival Month</th><th></th></th>	Venue <th> Festival Month</th> <th></th>	Festival Month	
	<tr></tr>			
	<td> World Sufi Spirit Festival</td>	World Sufi Spirit Festival		
	<td> Nagpur</td>	Nagpur		
	<td> February</td>	February		
	<tr></tr>			
	<td> Rajasthan International Folk Festival</td>	Rajasthan International Folk Festival		
	<td> Jodhpur</td>	Jodhpur		
	<td> October</td>	October		

[1				
		<tr></tr>			
		<td> Harnball Festival <td> Nagaland <td> December </td></td></td>	Harnball Festival <td> Nagaland <td> December </td></td>	Nagaland <td> December </td>	December

			To register for these music festival write to moi@csoi.com	
		(½ mark for correct use of and tags)		
		+ (½ mark for correct use of tag)</td><td></td></tr><tr><td></td><td></td><td>+ (½ mark for body background colour)</td><td></td></tr><tr><td></td><td></td><td>+ (½ mark for mentioning the correct font type and color)</td><td></td></tr><tr><td></td><td></td><td>+ (½ mark for displaying the heading correctly in center)</td><td></td></tr><tr><td></td><td></td><td>+ (½ mark for displaying the image correctly in center)</td><td></td></tr><tr><td></td><td></td><td>+ (½ mark for displaying the horizontal lines)</td><td></td></tr><tr><td></td><td></td><td>+ (1½ mark for correctly creating the nested list (½ mark for each list))</td><td></td></tr><tr><td></td><td></td><td>+ (1/2 mark for creating table with border) NOTE: Ignore Cellspacing</td><td></td></tr><tr><td></td><td></td><td>+ (½ mark for giving table <CAPTION>)</td><td></td></tr><tr><td></td><td></td><td>+ (1 mark for correctly creating the table using <TR> and <TD> tags)</td><td></td></tr><tr><td></td><td></td><td>+ (½ mark for creating the links on list items)</td><td></td></tr><tr><td></td><td></td><td>+ (½ mark for correctly creating the email link on the text)</td><td></td></tr><tr><td>Q4</td><td></td><td>Answer the following questions based on ASP:</td><td></td></tr><tr><td></td><td>(a)</td><td>Page1.asp has this link: Go <la> How can page2.asp get the "color" parameter? (1) Response.QueryString("color") (2) Get("color") (3) Response.Parameter("color") (4) Request. QueryString("color")</td><td>1</td></tr><tr><td></td><td>Ans.</td><td>4. Request.QueryString("color") (1 mark for correct option)</td><td></td></tr><tr><td></td><td>(b)</td><td>How many Global.asa files can an ASP application have ? Which one of the following events is a standard Global.asa event? (1) Session_Id (2) Session_Start (3) Application_ OnStart</td><td>2</td></tr></tbody></table>		

		(4) Global.asa does not have any standard events	
	Ans.	Each ASP application can have only one Global.asa file	
		3. Application_OnStart	
		(1 mark for mentioning the number of Global.asa file)	
		+ (1 mark for identifying the correct standard event)	
	(c)	Give the output of the following statements:	3
		(1) Response.write(9 MOD 3 + 6-5)(2) Response.write(LEN("ANDROID APPS"))	
		(3) Response.write(MONTHNAME(3) & DAY(DATE))	
	Ans.	(1) 1	
		(2) 12	
		(3) March16	
		(1 mark each for the three correct output)	
	(d)	Name the object used for the following:	4
		(1) To share information among all users of a given application.	
		(2) To control information sent back to the browser from the server.	
		(3) To obtain information about an error condition that has occurred in the	
		script.	
		(4) To store information about, or change settings for a user session.	
	Ans.	(1) Application Object	
		(2) Response Object	
		(3) ASPError Object	
		(4) Session Object	
		(1 mark for each correct object name)	
Q5		Answer the following questions based on ASP:	
	(a)	What is a recordSet?	
	Ans	A recordSet Object is used to manage a collection of records	1
		(1 mark for the correct definition)	
	(b)	Study the code given below to create a Content Rotator and answer the	
		questions that follow :	
		<hr/>	
		<body></body>	
		<center><h1>Android Apps</h1></center>	
		The free apps from the android community for varying	
		utilities	
		<%	
		DIM myCont=Session.CreateObject("MSWC.ContentRotator")	
		<pre><p align="CENTERI/><%=myCont.ContentChoose(" apps.txt"=""> %> </p></pre>	
		<pre>%> <p align="CENTERI/><%=myCont.ContentChoose(" apps.txt"=""> %></p></pre>	

	(i) What is the significance of the delimiters < % % > in the above code?	1
	(ii) Expand MSWC.	1
	(iii) Name anyone ASP component apart from Content Rotator	1
	(iv) Pointout four errors in the above code and correct them	2
Ans	 (i) The delimiters <% %> signify that the script will be executed server side (1 mark each for the correct significance) (ii) Microsoft Windows Component (1 mark for the correct expansion) (iii) Ad Rotator (1 mark for the correct component name) 	l on the
	(iv) Error Correction Erroneous Statement Corrected Statement	
	DIM myCont SET myCont	
	myCont.ContentChoose("apps.txt") myCont.ChooseContent("app	s.txt")
	Session.CreateObject Server.CreateObject	
	($\frac{1}{2}$ mark each for the four error corrections)	
(C)	<pre>Study the code given below:</pre>	ect")
	 (i) Fill in the blanks to complete the above code fragment that real the text in the file lines.txt and displays lines starting with the alphabet "A" on the web page. 	

		(ii) Name any two alternate methods of reading a text file apart from 2 ReadLine.	
	Ans.	<pre>i) <% Set FileObj =Server.CreateObject("Scripting.FileSystemObject") Set nfile=FileObj.OpenTextFile("lines.txt") DO WHILE NOT nfile.AtEndOfStream S=nfile.Readline IF LEFT(S, 1) = "A" THEN Response.Write(S & " ") END IF LOOP nfile.Close %> (½ mark each for the four blanks) NOTE: Full 2 Marks to be awarded for mentioning the ambiguity in nfile and newsfile ii) ReadAll and Read(1)</pre>	
0(NO-	
Q6	(a)	Answer the following questions based on VBScript: (a) Name the interface element for which the given event is appropriate: (i) OnMouseOver (ii) OnClick	1
	Ans.	OnMouseOver - Image OnClick - Button (1/2 mark each for naming the two correct interface elements)	
	(b)	<pre>Study the code given below and answer the questions that follow: <html> <body> <script language="VBScript"> SUB Change(X,Y) X=X + X Y=Y * Y DOCUMENT.WRITE{X & Y & " ") END SUB P=2 Q=3 DOCUMENT.WRITE(P & Q & " ") Change P,Q Change Q,P </script> </body> </html></pre>	

	(i) How many times will the function change get executed? 1				
	(ii) What is the role of the operator and in the statement 1 DOCUMENT.WRITE(X & Y & " ") ?				
	(iii) Give the output of the above code 3				
<u> </u>					
Ans.	 (i) The function change gets executed 2 times (1 mark for the correct number) 				
	(ii) To join the values together as a string (1 mark for the correct usage)				
	(iii) 23				
	49				
	64				
	(1 mark each for the three lines of output)				
(C)	Write the HTML code to generate the following form:	4			
	EVENT FEE CALCULATOR				
	Enter Number of Events				
	CALCULATE				
	Write the VB Script code to display the fee amount for the Events as $\overrightarrow{\bullet}$ 600				
	multiplied by the Number of Events entered in the top textbox on the click of				
	the CALCULATE button. Note that the Fee Amount should be displayed as 0 in				
	case the user does not enter a number in the top textbox. The user inputs the				
	Number of Events in the text box on the top and the fee amount should be				
	displayed in the bottom text box.				
Ans	<html></html>				
	<pre><head><title>Fee Calculator</title></head></pre>				
	<pre><script language="VBScript"></pre></td><td></td></tr><tr><td></td><td>SUB B1_OnClick</td><td></td></tr><tr><td></td><td>IF ISNUMERIC(F1.T1.Value) THEN</td><td></td></tr><tr><td></td><td>F1.T2.Value = F1.T1.Value * 600</td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td>F1.T2.Value = 0</td><td></td></tr><tr><td></td><td>END IF END SUB</td><td></td></tr><tr><td>1</td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></script></pre>				
	 <body></body>				

		Fee Amount <input n<="" th="" type="TEXT"/> <th>IAME="T2"> <p></p></th> <th></th>	IAME="T2"> <p></p>	
		<center></center>		
		<input <="" name="B1" th="" type="BUTTON"/> <th>VALUE="CALCULATE"></th> <th></th>	VALUE="CALCULATE">	
		(½ mark for correct <form> tag)</form>		
		+(1/2 mark for creating text boxes using	g <input/> tags)	
		+ (1/2 mark for creating button using <ii< th=""><th></th><th></th></ii<>		
		+ (½ mark for the correct <script> tag</td><td></td><td></td></tr><tr><td></td><td></td><td>+ (½ mark for associating subroutine w</td><td>vith the button element)</td><td></td></tr><tr><td></td><td></td><td>+ (1 mark for correct conditional state</td><td>ment)</td><td></td></tr><tr><th></th><th></th><th>+ (½ mark for correctly displaying the</th><th>output in the second text box)</th><th></th></tr><tr><td>Q7.</td><td>(a)</td><td>Which of the following is not open source</td><td>e software?</td><td>1</td></tr><tr><td></td><td></td><td>(i) Firefox web browser</td><td></td><td></td></tr><tr><td></td><td></td><td>(ii) MySQL</td><td></td><td></td></tr><tr><td></td><td>A 17 C 1</td><td>(iii) Visual Basic</td><td></td><td>_</td></tr><tr><td></td><td>Ans:</td><td colspan=5>s: (iii) Visual Basic (1 mark for correct option)</td></tr><tr><td></td><td></td><td></td><td>0)</td><td></td></tr><tr><td></td><td>(b</td><td>Name the protocol to be used in the follo</td><td>wing situations:</td><td>2</td></tr><tr><td></td><td></td><td>(i) For sending and receiving e-mails</td><td></td><td></td></tr><tr><td></td><td></td><td>(ii) For transferring computer files over a</td><td>network</td><td>_</td></tr><tr><td></td><td>Ans:</td><td>(i) SMTP (ii) FTP</td><td></td><td></td></tr><tr><td></td><td></td><td>(ii) FTP(1 mark each for the correct protocol r</td><td>name)</td><td></td></tr><tr><td></td><td></td><td>(I mark cach for the correct protocol I</td><td></td><td></td></tr><tr><td></td><td>(c)</td><td>Differentiate between CDMA and GSM.</td><td></td><td>2</td></tr><tr><td></td><td></td><td>Differentiate between ebink and obm.</td><td></td><td>-</td></tr><tr><td></td><td>Ans</td><td>*</td><td></td><td></td></tr><tr><td></td><td></td><td>CDMA</td><td>GSM</td><td></td></tr><tr><td></td><td></td><td>1. Code Division Multiple Access</td><td>Global System for Mobile</td><td></td></tr><tr><td></td><td></td><td>1. Code Division mattiple Access</td><td>Communication</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>2. Can be used only within a</td><td>Can be used for International</td><td></td></tr><tr><td></td><td></td><td>specified area</td><td>Roaming</td><td></td></tr><tr><td></td><td></td><td></td><td><i></i></td><td></td></tr><tr><td></td><td></td><td>(1 mark each for any one correct diffe</td><td></td><td></td></tr><tr><td></td><td></td><td>Note: 1 mark to be awarded in case</td><td>the student mentions only the full</td><td></td></tr><tr><td></td><td></td><td>forms of both terms</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>\perp</td></tr><tr><td></td><td>(d)</td><td>EduFuturz Solutions is in the process of so</td><td>etting up their new campus in Gurgaon.</td><td></td></tr></tbody></table></script>		

As a network expert. you are expected to help the institution by studying the physical locations of various blocks and the number of computers to be installed. On the basis of the given information, provide the best possible answers for the queries (i) to (v) to help them in the planning phase. Block to Block distances (in mtrs.) Place From Place To Distance Admin Block Print Block 60m Media Block 30m Admin Block Media Block **Print Block** 90m Expected number of computers in each block: Block No. of Computers Admin Block 60 Media Block 30 Print Block 40 (i) Draw the most appropriate cable layout to connect all three blocks 1 for efficient communication. Name the topology formed by the above cable layout. 1 (ii) Name the block that is most suitable to house the server for this 1 (iii) campus with a suitable reason. (iv) Which type of network, out of following, is formed by connecting 1 the computers of these three blocks? PAN LAN MAN 1 (v) Which wireless channel out of the following should be chosen by the Company Management to connect to their campus in another country? Infrared •

	Satellite
Ans	
(i)	
	(1 mark for correct cable layout)
(ii)	Star topolgy (1 mark for correct topology name)
(iii)	Admin Block because it has maximum number of computers (1/2 mark for correct block name and 1/2 mark for justification)
(iv)	LAN (1 mark for correct network type)
(v)	Satellite (1 mark for correct wireless channel name)
	hitelleschools