CBSE – DEPARTMENT OF SKILL EDUCATION

WEB APPLICATION (SUBJECT CODE-803)
Sample Question Paper with Marking Scheme
Class XII (Session 2019–2020)

Time: 3Hours   **Max. Marks: 60**

General Instructions:

1. *This Question Paper consists of two parts viz. Part A: Employability Skills and Part B: Subject Skills.*

   Part A: Employability Skills (10 Marks)

   i. *Answer any 4 questions out of the given 6 questions of 1 mark each.*
   ii. *Answer any 3 questions out of the given 5 questions of 2 marks each.*

   Part B: Subject Skills (50 Marks):

   iii. *Answer any 10 questions out of the given 12 questions of 1 mark each.*
   iv. *Answer any 5 questions from the given 7 questions of 2 marks each.*
   v. *Answer any 5 questions from the given 7 questions of 3 marks each.*
   vi. *Answer any 3 questions from the given 5 questions of 5 marks each.*

2. ***This question paper contains 42 questions out of which 30 questions are to be answered.***
3. *All questions of a particular part/section must be attempted in the correct order.*
4. *The maximum time allowed is 3hrs.*

PART A: EMPLOYABILITY SKILLS (10 MARKS)

Answer any 4 questions out of the given 6 questions of 1 mark each:

1.	The complete subject consists of simple subject and its_____ . Answer - modifiers	**(1)**
2.	_____is a journey not a destination. Answer – Dreaming Big	**(1)**

3.	What is the short cut key to select the entire row in which the cell pointer is positioned,?
	    A. SHIFT + SPACEBAR
	    B. CTRL + SPACEBAR
	    C. CTRL + A
	    D.CTRL + Z
	Answer -A. SHIFT + SPACEBAR
		(1)

4.	_____means not to give up and keep going even when a difficult situation comes up while running a business. Answer - Perseverance	**(1)**

5.	Green tourism makes an optimal use of _____.	(1)
	Answer- environmental resources.	
6.	_____motivate us to reach to our highest potential.	(1)
	Answer – Expansive thoughts	

Answer any 3 questions out of the given 5 questions of 2 marks each:

7.	**You want to join the computer course in an institute. Write an e-mail using appropriate format asking about the details of the courses they are offering.**
	Answer-
	Title
	
	Dear Sir/ Madam
	I am a student of Class XII and I need some information about the computer courses covering basic software's such as MS Word, MS Excel, MS PowerPoint , Internet, etc.
	Kindly furbish the details of the following:
	    a) Do you have a part time course for school students?
	    b) What is the hourly duration of the courses?
	    c) What are the after-school activities offered? Will they help me to improve my ICT skills?
	    d) What is the actual cost of the course?
	    e) Do you offer any scholarships?
	
	I'm hoping to join the course soon, so if you can get back to me as soon as possible, it would be great.
	
	Thanks for your help.
	
	Yours Sincerely
	Rohan
		(2)

8.	What is the common personality disorder? Answer– Feeling extremely nervous and worried because you believe that other people do not like you or are trying to harm you.	(2)
9.	What do you mean by Handouts in presentation software? Answer - Handouts are very small images of slides printed together on a sheet of paper, which can be given to the viewers for reference.	(2)
10.	Who is entrepreneur? Answer - An entrepreneur is a person who tries to meet needs of a customer through new ideas or ways of doing business and makes profit in return. New ideas with which an entrepreneur adds value to a business can be of many kinds, including new products — like adding varieties, new services like home delivery or credit services.	(2)

11.	Differentiate between job role of Chief sustainability officers and Wind/Solar energy engineers.		(2)

Answer -

Chief sustainability officer	Wind/Solar energy engineers.
They oversee green activities in their organizations.	They design and develop wind farm systems.

PART B: SUBJECT SKILLS (50 MARKS)

Answer any 10 questions out of the given 12 questions:

12.	_____will work with .wmv, flv, rm and .mpg files. This makes it more versatile than Virtualdub. Ans : Movica	(1)
13.	Which of the following is not movie editing software? a. Wax b. Blender c. JavaScript d. HTML Ans : JavaScript and HTML	(1)
14.	_____is a simple tool for extracting DVD clips from DVDs. The clips are stored only in VOB format. Ans : DVD Knife	(1)
15.	_____ is a free video editor for fast and lossless AVI editing. Ans : AVI Trimmer	(1)
16.	JPEG stands for _____. a. Joint Photographic Explorer Group b. Joint pictures export graphic c. Joint photographic experts group d. Joint pixel export group Ans : c. Joint Photographic Experts Group	(1)
17.	Files with .voc extension are the _____files. 1. Image 2. Sound 3. Video 4. Text Ans : 2. Sound	(1)
18.	Each video on Facebook has an id which shown in the_____. Ans : URL or Uniform Resource Locator	(1)

| 19. | Variables in Java Script can be defined using_____keyword.

Ans : var | **(1)** |
|---|---|---|
| 20. | A_____is a classification of the type of data that a variable or object can hold.

Ans : data type | **(1)** |
| 21. | Numbers in Java Script are in double precision_____ bit format.

Ans : 64-bit | **(1)** |
| 22. | There is a built in object called ____ to handle more advanced mathematical functions and constants in JavaScript.

Ans : Math | **(1)** |
| 23. | Bitwise _____ operator operates by reversing all bits in the opened.

Ans : NOT | **(1)** |

Answer any 5 questions out of the given 7 questions of 2 marks each:

| 24. | Explain two non-destructive and non-linear tools for video editing.

Ans : Two Non-destructive and non-linear tools for video editing are :
  a. Zwei-Stien : Video Editor: It makes cutting and joining footage easy and includes a wide range of built-in adjustable effects that can be used separately or in combination
  b. AVITricks Video Editor : It makes cutting and joining footage easy and includes a wide range of built-in adjustable effects that can be used separately or in combination
(2 marks for any two correct video tools with a brief description) | **(2)** |
|---|---|---|
| 25. | Name and explain two views available in Windows Movie Maker while making a movie.

Ans : Two views are :
  i) Timeline View: The timeline view provides a more detailed view of our movie project and allows us to make finer edits.
  ii) Storyboard View: The storyboard is the default view in Windows Movie Maker. We can use the storyboard to look at the sequence or ordering of the clips in your project and easily rearrange them
(1 mark for Timeline View)
(1 mark for Storyboard View) | **(2)** |
| 26. | Differentiate between spilt clips and trim clips with respect to Windows Movie Maker.

Ans: Split Clip: The Split button allows us to split a clip into two parts at the point displayed in the preview monitor.

Trim clips : the trimmed part of the clip is not actually removed from the source file; it's just hidden so the trimmed part doesn't appear in our project or published movie
(2 marks for any two differences) | **(2)** |
| 27. | Explain any two advantages of using multimedia on web pages.

Ans : Advantages of using Multimedia on web pages :-
  i) Greater Immersion: Adding multimedia elements to a Web page make it easier to draw attention of viewers.
  ii) Enhanced Page Rankings for SEO.
  iii) Better Branding: Multimedia sites are frequently preferred by marketing departments because of their ability to completely present branding | **(2)** |

28.	Write code snippet in Java Script to find and display highest value from given four numbers num1, num2, num3 and num4.
	
	Ans :
	   x= Math.max(num1,num2, num3, num4);
	   document.write(" Highest value is :" + x);
	
	  (1 mark for finding the highest value
	  1 mark for displaying the highest value)
		(2)

29.	Which of the following are valid Javascript variable names? Add, function, average1, my.name, NaN, 2ndobject, obj_hello, wellness Ans : Add, average1, obj_hello, wellness (1/2 mark for each correct variable name)	**(2)**
30.	Describe the importance of add-ins in a web page and give names of any two websites from where you can download add-ins. Ans: Add-ins extends the capability of the main program by adding enhanced custom commands and specialized features. Add-ins may be downloaded from any of the following: - http://msdn.microsoft.com/en-us/expression/jj873995.aspx - http://www.webassist.com/go/xweb-add-ins - http://www.expressionextras.com/products/lightbox.htm - http://www.dotnetcurry.com/ShowArticle.aspx?ID=534 (1 mark for explaining Add-ins) (1 mark for names of two relevant websites)	**(2)**

Answer any 5 questions out of the given 7 questions of 3 marks each:

31.	Name three movie panes of the Window Movie Maker and explain their functions? Ans : The movie panes of Windows Movie Maker are : i) The Tasks pane lists the common tasks that may be needed to perform while making a movie, including importing files, editing, and publishing your movie. ii) The Collections pane displays our collection of folders, which contain clips. The collection folders appear in the Collections pane on the left, and the clips in the selected collection folder are displayed in the Contents pane on the right. iii) The Contents pane shows clips, effects, or transitions that are working with while creating our movie, depending on the view being worked with. (1 mark for each pane and its explanation. ½ mark for writing each pane name Full 3 marks to be awarded for writing 3 panes with explanation)	**(3)**
32.	Name the places where titles can be added in a movie. Give an example of audio, video and image file extension supported by Windows Movie Maker. Ans : Title text can be added to various places in Movie Maker :	**(3)**

	a) at the beginning or at the end, b) before or after a clip, c) Overlaying a clip. (½ mark for each point) Video files: .asf, .avi, ..mpg, .mpv2, .wm, and .wmv (any one) □ Audio files: .aif, .aifc, .mpa, .snd, .wav, and .wma (any one □ Picture files: .bmp, .dib, .emf, .tiff, and .wmf (any one) (½ mark for each point)	
33.	Explain the term Multimedia. Differentiate between raster and vector graphics. Ans: Multimedia: Multimedia is the media that uses multiple forms of information content and information processing (e.g. text, audio, graphics, animation, video, interactivity) to inform or entertain the user. A raster image is one composed of a field of pixels, each characterized by a color, and is usually created in paint programs, by scanning a picture or by grabbing an image. A vector format is created almost always by a drawing/CAD program and consists not of pixels, but objects such as curves, shades, and characters. (1 mark for multimedia) (1 mark for each raster and vector)	**(3)**

34.	Explain the following with respect to Java script using suitable example.
	 1. Event handler
	 2. Objects
	 3. Operator
	
	 Ans :
	 1. Event Handler - The "event handler" is a command that is used to specify actions in response to an event. Eg: onLoad, onMouseover etc.
	 2. Objects: JavaScript objects are simply collections of name-value pairs. The "name" part is a JavaScript string, while the value can be any JavaScript value including more objects. Eg: string object, math object etc
	 Or
	 JavaScript supports programming with objects. Objects are a way of organizing the variables. The different screen elements such as Web pages, forms, text boxes, images, and buttons are treated as objects.
	 3. Operator: Operators are symbols which perform some operation on values. JavaScript operators can be used to perform various operations such as:
	     ▪ Arithmetic Operators
	     ▪ Comparison Operators
	     ▪ Logical Operators
	     ▪ Relational Operators
	     ▪ Assignment Operators
	     ▪ Conditional Operators
		(3)

35.	Explain anonymous functions in JavaScript with an example.
	
	 Ans: Anonymous functions are the functions without any name.
	 For example :
	 var avg = function() {
	 var sum = 0;
	 for (var i = 0, j = arguments.length; i < j; i++) {
		(3)

	sum += arguments[i];
	}
	return sum / arguments.length;
	}	

36.	Explain DWT, Code optimization and Web Hosting. Ans: DWT: DWT stands for dynamic web template. Templates help you organize the entire website to have a consistent look and feel. This is very helpful when you work with large number of web pages. Code Optimization: Before you publish, you need to cleanup your web page for any unnecessary code that can result in reducing page size. This in turn will help in faster downloads. Web Hosting: When you want others to see your content designed using HTML, you need to host the content in a web server to be viewed by the public. There are several free web hosting providers that provide free web space for your content.	**(3)**

37.	Explain following terms
	i. Snippet
	ii. SEO
	iii. CSS
	
	Ans :
	   1. Snippet: When you want others to see your content designed using HTML, you need to host the content in a web server to be viewed by the public. There are several free web hosting providers that provide free web space for your content.
	   2. SEO: Search Engine Optimization or SEO refers to the process that affects the website visibility or ranking when displaying search results. Search Engines search contents of a web page and create indexes to display results.
	   3. CSS: Cascading Style Sheets are the templates that can be used to design your websites. These are available on the Internet. Popularly referred to as CSS Templates or XHTML/CSS Templates these templates look attractive while meeting certain standards.
		(3)

Answer any 3 questions out of the given 5 questions of 5 marks each:

38.	Explain embedding audio in Web Pages. Give any four ways to embed audio files in a web page.
	
	Ans: Embedding audio in Webpages: Embedding a sound on a page means to include the sound commands in the HTML document.
	Four ways to embed Audio files in a web page are :
	   - Using the Object Tag : <object> tag can be used for embedding various media into our web pages.
	   - Google Reader MP3 Player: Google Reader has an inbuilt MP3 player that is pretty much the same as Gmail player but it also works on non-Google websites.
	   - Yahoo Media Player: The Yahoo Media Player takes a drastically different approach by presenting viewers with a very minimal piece of text and a play button instead of a full-fledged player.
	   - MixPod: MixPod creates a free flash widget to embed into our site.
	
	(1 mark for audio embedding)
	(½ mark for each way to embed audio)
		(5)

39.	Give any two ways to embed flash files into a web page. Explain .mpeg, .wav and .cgm file extensions.	(5)
	Ans : 1. Inserting Flash into a Dreamweaver Page Inserting Flash into Dreamweaver is a pretty straightforward process. Within Dreamweaver, pull down the Insert menu and select Media, then select Flash 2. Inserting Flash into Web Pages Manually with Code: To insert Flash onto a web page or content management system manually, we must first upload the SWF file to a web server using a protocol called FTP or through an upload form on the content management system. .mpeg- MPEG files use the MPEG-1 video compression routine, a universal protocol for creating and displaying time coded data created by the Motion Picture Experts Group. .wav - WAV (wave) files are Microsoft's native audio sound format. WAV files can include 8-bit or 16-bit sound, in mono or stereo. .cgm - A Computer Graphics Metafile, CGM, is also a vector format and can be opened by Canvas and ClarisDraw.	
40.	Write a code in Java Script to accept a string from the user, the program should: - display length of the string - print the string in upper case - print the first two characters of the string - print the string in reverse order	(5)

	Ans :
	
	```\nx= prompt("enter a string ");\nl=x.len();\ndocument.write(" length of the string is : " +l);\ndocument.write(" String in Uppercase is :" + x. toUpperCase());\ndocument.write(" First two characters of string are" + x.substring(0,2));\ndocument.write(" Reverse of the string is :" +x.reverse());\n```
	
	(1 mark for accepting the string
	  1 mark for displaying the length
	  1 mark for converting the string into upper case
	  1 mark for displaying the substring
	  1 mark for displaying reverse of string)	

41.	Write the code in JavaScript to accept a number from the user. It should display whether the number entered by the user is even or odd. The code should display an alert box also if the number is less than or equal to zero.	(5)
	Ans : ```\n<script>\nvar num;\n num= prompt(enter a number");\n n=parseInt(num);\nif(n<=0)\n alert(" the number is less than or equal to zero");\n\nif(n%2= =0)\n document.write(" number is even ");\nelse\n document.write(" number is odd ");\n```	

	</script>	

42.	Give the output of the following code snippet with justification :
	    i) NaN % 5
	    ii) isFinite(-Infinity)
	    iii) "Early morning good morning".replace("morning", "evening")
	    iv) for (i=1;i<1;i++)
	       document.write("hello");
	       document.write("ByeBye");
	    v) str=" Health is Wealth";
	       document.write(str.match("wealth");
	       document.write(str.match("Wealth");
	
	Ans :
	    i) NaN
	    ii) false
	    iii) Early evening good morning
	    iv) ByeBye
	    v) null
	          Wealth
	(1 mark for each correct output)
		(5)