

Series BVM

Code No. 320

Roll No.

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Candidates must write the Code on the title page of the answer-book.

- Please check that this question paper contains **7** printed pages.
- Code number given on the right hand side of the question paper should be written on the title page of the answer-book by the candidate.
- Please check that this question paper contains **31** questions.
- **Please write down the Serial Number of the question before attempting it.**
- 15 minute time has been allotted to read this question paper. The question paper will be distributed at 10.15 a.m. From 10.15 a.m. to 10.30 a.m., the students will read the question paper only and will not write any answer on the answer-book during this period.

WEB APPLICATIONS

Time allowed : $2\frac{1}{2}$ hours

Maximum Marks : 50

General Instructions :

- (i) This question paper contains **31** questions out of which the candidate needs to attempt only **23** questions.
- (ii) Question paper is divided into two sections.

SECTION A

- Multiple choice questions / Fill in the blanks/Direct questions : contains total **12** questions of **1** mark each. Answer any **10** questions.
- Very short answer type questions : contains total **7** questions of **2** marks each. Answer any **5** questions.
- Short answer type questions : contains total **7** questions of **3** marks each. Answer any **5** questions.

SECTION B

Long answer / Essay type questions : contains total **5** questions of **5** marks each. Answer any **3** questions.

SECTION A

I. Multiple Choice Questions (Attempt *any ten* from the following) : $1 \times 10 = 10$

1. _____ lists the common tasks that may be needed to perform while making a movie including importing files, editing and publishing the movie. *1*

- (a) Preview Monitor
- (b) Timeline
- (c) Storyboard
- (d) Tasks Pane

2. NLE stands for _____ . *1*

- (a) No Long Editing
- (b) Non Linear Editing
- (c) Audio Video Interchange
- (d) Audio Video Interval

3. _____ is a free open source 3D content creation suite available under GNU license. 1
- (a) Movica
 - (b) Windows Movie Maker
 - (c) Blender
 - (d) AVIedit
4. Which one of the following can be considered as multimedia ? 1
- (a) Plain Text
 - (b) Image
 - (c) Animation
 - (d) Spreadsheet
5. Which extension identifies a webpage ? 1
- (a) .html
 - (b) .css
 - (c) .gif
 - (d) .swf
6. NaN+5= _____ 1
- (a) false
 - (b) 0
 - (c) 5
 - (d) NaN
7. Which one of the following is **not** a valid datatype in JavaScript ? 1
- (a) Number
 - (b) List
 - (c) Time
 - (d) Decimal

8. _____ is an example of an audio file. 1
- (a) .dib
 - (b) .wma
 - (c) .mp3
 - (d) .tiff
9. _____ Timeline appears as a magnifying glass with a (+) sign in it. 1
- (a) Play
 - (b) Pause
 - (c) Audio
 - (d) Zoom
10. Document object uses _____ method to output some text to the page-document. 1
- (a) load()
 - (b) active()
 - (c) write()
 - (d) output()
11. What will be the output of the following JavaScript statement ? 1
- parseInt("345",10)
- (a) 3450
 - (b) 34500
 - (c) 355
 - (d) 345
12. Which method in JavaScript removes and returns the last item ? 1
- (a) pop()
 - (b) push()
 - (c) join()
 - (d) slice()

- II.** Attempt *any five* questions : $2 \times 5 = 10$
- 13.** What is a movie ? Write any two ways to share a movie. 2
- 14.** If we have a video or audio file that was divided into clips when it was imported into Windows Movie Maker, and the clips are named Clip1, Clip2 and Clip3, can we combine Clip1 and Clip3 ? Give reason to support your answer. 2
- 15.** Write steps to avoid including the title, author in the published movie file. 2
- 16.** Differentiate between Client side JavaScript and Server side JavaScript. 2
- 17.** What will be the output of the following ? 2
- A="Be positive"
- (a) var d = A.indexOf("positive")
- (b) document.write(A.length)
- 18.** Explain the purpose of Add-ins. Write the step to install a downloaded Add-in. 2
- 19.** What is IntelliSense ? Write steps to view IntelliSense. 2

III. Attempt *any five* questions :

$3 \times 5 = 15$

- 20.** Name the two views where the project in Windows Movie Maker project is created and edited. Out of the two, which is the default view ? Also write one point of difference between them. 3
- 21.** What happens when we trim a clip ? Write steps to undo a trimmed clip. 3
- 22.** Write any three advantages of using Multimedia on Web Pages. 3
- 23.** Assuming variable A holds 25 and B holds 2, identify the type of operator and write the output of the following : 3
 - (a) (B--)
 - (b) (A! = B)
- 24.** Define an Event. Write any two commonly used Events. 3
- 25.** Why is it important to backup websites ? Write any one reason. Also, write steps to take a backup of the website containing static pages. 3
- 26.** Samantha has created a website that has web pages that gives information on first aid. With respect to the above description, classify the website as static or dynamic. Also, differentiate between Static and Dynamic websites. 3

SECTION B

Attempt *any three* questions :

$5 \times 3 = 15$

- 27.** Write JavaScript code to : 5
 - (a) Display a confirm box with the message "Do you want to continue ?".
 - (b) Create an array X.
 - (c) Store "Top", "Bottom" in the array X.
 - (d) Store Date and Time in variable B.
 - (e) Print the message "Welcome" on a web page.

- 28. Write any five features of JavaScript. 5
- 29. What is MIDI ? Write three advantages of MIDI. 5
- 30. Write any five ways of embedding a video in a webpage. 5
- 31. List any three ways in which Windows Movie Maker uses a temporary file storage location. Write steps to change the default file storage location in Windows Movie Maker. 5

Important Note:

- All answers provided in the Marking scheme are SUGGESTIVE.
- Examiners are requested to accept all possible alternative correct answer(s) and even accept answers which are beyond the scope of content of the CBSE Text Book.
- Wherever multiple answers are suggested, they are not in any specific order
- In each section, if the students have attempted more questions than the asked number of option of questions, the number of correctly answered questions should be considered for evaluation.

SECTION A

I	Multiple Choice Questions (Attempt any ten from the following)	1X10=10
1.	_____ lists the common tasks that may be needed to perform while making a movie including importing files, editing and publishing the movie.	1
	(a) Preview Monitor (b) Timeline (c) Storyboard (d) Tasks Pane	
Ans	(d) Tasks Pane	
	(1 Mark for correct answer)	
2.	NLE stands for _____.	1
	(a) No Long Editing (b) Non Linear Editing (c) Audio Video Interchange (d) Audio Video Interval	
Ans	(b) Non Linear Editing	
	(1 Mark for correct answer)	
3.	_____ is a free open source 3D content creation suite available under GNU license.	1
	(a) Movica (b) Windows Movie Maker (c) Blender (d) AVledit	
Ans	(c) Blender	
	(1 Mark for correct answer)	
4.	Which one of the following can be considered as multimedia ?	1
	(a) Plain Text (b) Image (c) Animation (d) Spreadsheet	

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Ans	(c) Animation	
	(1 Mark for correct answer)	
5.	Which extension identifies a webpage ?	1
	(a) .html (b) .css (c) .gif (d) .swf	
Ans	(a) .html	
	(1 Mark for correct answer)	
6.	NaN+5=_____	1
	(a) false (b) 0 (c) 5 (d) NaN	
Ans	(d) NaN	
	(1 Mark for correct answer)	
7.	Which one of the following is not a valid datatype in JavaScript ?	1
	(a) Number (b) List (c) Time (d) Decimal	
Ans	(b) List OR (c) Time OR (d) Decimal OR (b),(c) and (d)	
	(1 Mark for any one of the above answer)	
8.	_____ is an example of an audio file.	1
	(a) .dib (b) .wma (c) .mp3 (d) .tiff	
Ans	(c) .mp3	

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	(1 Mark for correct answer)	
9.	_____Timeline appears as a magnifying glass with a (+) sign in it.	1
	(a) Play (b) Pause (c) Audio (d) Zoom	
Ans	(d) Zoom	
	(1 Mark for correct answer)	
10.	Document object uses _____ method to output some text to the page-document.	1
	(a) load() (b) active() (c) write() (d) output()	
Ans	(c) write()	
	(1 Mark for correct answer)	
11.	What will be the output of the following JavaScript statement? <code>parseInt("345",10)</code>	1
	(a) 3450 (b) 34500 (c) 355 (d) 345	
Ans	(d) 345	
	(1 Mark for correct answer)	
12.	Which method in JavaScript removes and returns the last item ?	1
	(a) pop() (b) push() (c) join() (d) slice()	
Ans	(a) pop()	
	(1 Mark for correct answer)	
II	Attempt any five questions :	2*5=10
13.	What is a movie? Write any two ways to share a movie.	2
Ans	A movie is a media file /motion picture file/ video file	

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	<p>OR</p> <p>A series of still images with audio to produce a single playable file.</p> <p>OR</p> <p>A file with .wmv / .avi/ .flc/ .fli/ .mov/ .moov/ .mpg/ .mpeg/ .mp4 extension.</p> <p>It can be shared with others in a number of ways such as :</p> <ul style="list-style-type: none"> • pen drive • sd card • CD • DVD • An attachment to an email message 	
	<p>(1 mark for defining a movie)</p> <p>(1 mark for any two valid ways of sharing)</p>	
14.	If we have a video or audio file that was divided into clips when it was imported into Windows Movie Maker, and the clips are named Clip1, Clip2 and Clip3, can we combine Clip1 and Clip3 ? Give reason to support your answer.	2
Ans	<p>Yes</p> <p>We can combine Clip1 and Clip 3 clips OR any two Clips</p>	
	<p>(1 mark for Yes)</p> <p>(1 mark for the correct reason/statement)</p>	
15.	Write steps to avoid including the title, author in the published movie file.	2
Ans	<ol style="list-style-type: none"> 1. Click Tools and then click Options 2. Click the General Tab and then Select "Do not Include the title, author, copyright, rating, and comments" information in the published movie file check box. 	
	<p>(1 mark for each step)</p> <p>OR</p> <p>(2 marks for correct method conveying the appropriate way)</p>	
16.	Differentiate between Client side JavaScript and Server side JavaScript.	2
Ans	<p>Client-side means that the JavaScript code is running on the client machine, i.e. on the browser.</p> <p>Server-side JavaScript means that the code is running on the Web Server.</p> <p>OR</p> <p>One runs in the browser (client side), the other (server side) runs on the server .</p>	
	<p>(1 mark for client side explanation)</p> <p>(1 mark for server side explanation)</p>	
17.	What will be the output of the following ?	2
	A="Be positive"	

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	(a) <code>var d = A.indexOf("positive")</code> (b) <code>document.write(A.length)</code>	
Ans	(a) 3 OR (a) it will not show any output (it is not displayed using any output command) (b) 11 <i>Note: If the student writes Syntax Error in the code (as ; missing in both) - he/she should get full 2 Marks</i>	
	<i>(1 mark for each answer)</i>	
18.	Explain the purpose of Add-ins. Write the step to install a downloaded Add-in.	2
Ans	Add-ins extends the capability of the main program by adding enhanced custom commands and/or features OR Add-ins can be defined as a device or piece of software that can be added to a computer/software to give extra features or functions. Steps to Install a downloaded Add-in <ul style="list-style-type: none"> • Select Tools->Add-Ins • From the Manage Add-Ins dialog box, select install. 	
	<i>(1 mark for definition of Add-ins)</i> <i>(1 mark for correct steps)</i>	
19.	What is IntelliSense ? Write steps to view IntelliSense.	2
Ans	Intellisense is a feature that automatically provides you a list of codes and attributes as a pop up when you work in the code view mode Steps to view Intellisense <ul style="list-style-type: none"> • Select Tools-> Page Editor Options • Select the tab Intellisense and notice the settings 	
	<i>(1 mark for explaining Intellisense)</i> <i>(1 mark for correct procedure OR ½ Mark for each step)</i>	
III	Attempt any five questions:	3x5=15
20.	Name the two views where the project in Windows Movie Maker project is created and edited. Out of the two, which is the default view ? Also write one point of difference between them.	3
Ans	The two views are: <ul style="list-style-type: none"> • Storyboard • Timeline 	

	<p>The default view is Storyboard</p> <p>Audio Clips that have been added to a project are not displayed on the storyboard, but they can be seen in Timeline View</p> <p>OR</p> <p>Storyboard can be used to look at the sequence or ordering and allows rearrangement whereas Timeline allows provides more detailed view of our movie project and allows to make finer edits.</p> <p>OR</p> <p>Storyboard is a default view and Timeline is a detailed view</p>	
	<p><i>(1 mark for the correct view)</i></p> <p><i>(1 mark for the correct default view)</i></p> <p><i>(1 mark for the correct difference)</i></p>	
21.	What happens when we trim a clip ? Write steps to undo a trimmed clip.	3
Ans	<p>When we trim a clip, the unwanted part gets hidden and does not appear in the project or published movie.</p> <p>OR</p> <p>We trim a clip to reduce the size/duration of the clip/movie.</p> <p>OR</p> <p>We trim a clip to resize a clip/movie.</p> <p>To undo a trimmed clip:</p> <p>In Storyboard view:</p> <p>(i) Click View</p> <p>(ii) Click Timeline</p> <p>(iii) Click the trimmed clip on the timeline,</p> <p>(iv) Click Clip and then click Clear Trim points.</p> <p>OR</p> <p>Any other alternative correct steps</p>	
	<p><i>(1 mark for explaining what happens when we trim a clip)</i></p> <p><i>(2 marks for the steps to undo trimming of a clip, Give partial ½ mark for each correct/appropriate step)</i></p>	
22.	Write any three advantages of using Multimedia on Web Pages.	3
Ans	<ul style="list-style-type: none"> • Greater immersion • Attracts and holds the attention of the viewers. • Enhances Page Rankings for SEO • Multimedia content can be embedded on a site to allow visitors to view Video/Photos • Better Branding: It has the capability to address all types of users. <p>OR</p> <p>Any other explanation with the help of an example</p>	
	<i>(1 mark each for any 3 correct advantages/explanation/example)</i>	

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23.	Assuming variable A holds 25 and B holds 2, identify the type of operator and write the output of the following:	3
	(a) (B--) (b) (A!=B)	
Ans	<p>(a) Output: 1 [This is the answer keeping in view the student has only learnt the concept of -- as a decrement operator] OR Output: 2 [This is the correct output -- being post decrement]</p> <p>Type of Operator: Arithmetic/Decrement</p> <p>(b) Output: true OR 1 OR Yes</p> <p>Type of Operator: Relational/Comparison/Not Equal to</p>	
	(1 mark for each correct output) (½ mark for each correct operator type)	
24.	Define an Event. Write any two commonly used Events.	3
Ans	<p>Events are things that happen usually by user actions that are associated with an object. OR An occurrence of an activity is called Event</p> <p>Below are some of the most commonly used events:</p> <ul style="list-style-type: none"> • onLoad - occurs when a page loads in a browser • onUnload - occurs just before the user exits a page • onMouseOver - occurs when you point to an object • onMouseOut - occurs when you point away from an object • onSubmit - occurs when you submit a form • onClick - occurs when an object is clicked • onBlur - occurs when object loses focus • onFocus - occurs when object gains focus • onSelect - occurs when a content is selected • onKeyDown - occurs when any key is pressed • onChange - occurs when the content of object changes 	
	(1 mark for the definition of Event) (1 mark each for any two event name with or without its description)	
25.	Why is it important to backup websites ? Write any one reason. Also, write steps to take a backup of the website containing static pages.	3
Ans	Backup Websites is a highly recommended practice	

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	<p>To avoid loss of information in case of server failure OR To avoid losing the last version of the stored information on the website. OR To get the information back in case of a wrong update OR To the information back in case Viruses, troian horses, and other malware attack</p> <p>If you only have HTML content (static web pages), use the following procedure to take a backup of the website:</p> <ul style="list-style-type: none">• Go the location of your website• Select the folder that has the complete website.• Copy the same and paste it to another online/offline location such as a hard drive/CD/Drive/Pen Drive of another computer.					
	<p>(1 mark for definition of backup) (1 mark for correctly stating the reason for backup) (1 mark for steps of backup)</p>					
26.	<p>Samantha has created a website that has web pages that gives information on first aid. With respect to the above description, classify the website as static or dynamic. Also, differentiate between Static and Dynamic websites.</p>	3				
Ans	<p>Samantha has created a Static Website.</p> <table><tr><th>Static Website</th><th>Dynamic Website</th></tr><tr><td>Static websites only displays the information and allow navigation through hyperlinks OR Static Websites are difficult to maintain</td><td>Dynamic Websites are interactive OR Dynamic website results are processed by an application server OR Dynamic websites contain Web pages that are generated in real-time. OR Dynamic websites include Web scripting code such as PHP or ASP or JSP. OR Dynamic Websites are easy to maintain OR Social Networking sites are example of Dynamic Websites OR Dynamic website accesses the code within the page parsed on the Web server and the resulting HTML is sent to the client's Web browser.</td></tr></table>	Static Website	Dynamic Website	Static websites only displays the information and allow navigation through hyperlinks OR Static Websites are difficult to maintain	Dynamic Websites are interactive OR Dynamic website results are processed by an application server OR Dynamic websites contain Web pages that are generated in real-time. OR Dynamic websites include Web scripting code such as PHP or ASP or JSP. OR Dynamic Websites are easy to maintain OR Social Networking sites are example of Dynamic Websites OR Dynamic website accesses the code within the page parsed on the Web server and the resulting HTML is sent to the client's Web browser.	
Static Website	Dynamic Website					
Static websites only displays the information and allow navigation through hyperlinks OR Static Websites are difficult to maintain	Dynamic Websites are interactive OR Dynamic website results are processed by an application server OR Dynamic websites contain Web pages that are generated in real-time. OR Dynamic websites include Web scripting code such as PHP or ASP or JSP. OR Dynamic Websites are easy to maintain OR Social Networking sites are example of Dynamic Websites OR Dynamic website accesses the code within the page parsed on the Web server and the resulting HTML is sent to the client's Web browser.					

		(1 mark for stating "Samantha has created a Static Website") (1 mark for one point of difference for Static Website) (1 mark for one point of difference for Dynamic Website)	
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SECTION B

Attempt any three questions:			5x3=15
27.		Write JavaScript code to:	
		(a) Display a confirm box with the message "Do you want to continue ?" (b) Create an array X. (c) Store "Top", "Bottom" in the array X. (d) Store Date and Time in variable B. (e) Print the message "Welcome" on a web page.	5
Ans		(a) <code>var a = confirm("Do you want to continue?");</code> (b) <code>var X = new Array();</code> (c) <code>X=["Top", "Bottom"]</code> OR <code>X[0]="Top"; X[1]="Bottom";</code> (d) <code>var b = new Date();</code> (e) <code>document.write("Welcome");</code>	
		(1 mark for each correct answer)	
28.		Write any five features of JavaScript.	5
Ans		(i) All browsers support JavaScript (ii) Can be used both on client and server side (iii) An interactive language (iv) An object based programming language (v) Keeps getting updated (vi) Ability to code in functional programming style (vii) Helps to create Dynamic pages	
		(1 mark each for any 5 correct features)	
29.		What is MIDI ? Write three advantages of MIDI.	5
Ans		<ul style="list-style-type: none"> • MIDI is Musical Instrument Digital Interface • MIDI is a protocol developed in the 1980's • Allows electronic instruments and other digital musical tools • MIDI is used to communicate with each other. • MIDI itself does not make sound. • MIDI is a series of messages like "note on," "note off," "note/pitch", "pitch bend" and many more. • A MIDI instrument can be a piece of hardware (electronic keyboard, synthesizer) or part of a software environment (ableton, garageband, digital performer, logic). 	

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	<p>The advantages of MIDI Include:</p> <ul style="list-style-type: none"> • Compact • Easy to modify/manipulate notes • Change Instruments 	
	<p>(1 mark for each of one point of definition of MIDI) (1 mark each for stating and/or explaining any 3 correct advantages)</p>	
30.	Write any five ways of embedding a video in a webpage.	5
Ans	<ul style="list-style-type: none"> • Youtube Embed Code • Vimeo Embed Code • Facebook Video Integration • HTML5 Video • Freemake Video Converter • Embed • Quick Media Converter • Free Video Coding • Video Lightbox • Easy HTML5 Video 	
	<p>(1 mark each for any 5 correct ways from the above or any other correct way mentioned by the student)</p>	
31.	List any three ways in which Windows Movie Maker uses a temporary file storage location. Write steps to change the default file storage location in Windows Movie Maker.	5
Ans	<p>Windows Movie Maker uses a temporary file storage location in the following ways:</p> <ul style="list-style-type: none"> • When we publish a movie, the audio or movie file is held in the temporary file location until the file is published. • When we record an audio narration, a temporary file is created. • When we publish a movie that you want to attach to an email message, a copy of the movie file is stored in the temporary location • A temporary file is created until the file is stored in the storage device. <p>To change the default file storage location in Windows Movie Maker:</p> <ul style="list-style-type: none"> • Click Tools and then click Options • Click the General Tab, and then in the temporary storage box, choose the default location where temporary audio and movie files are to be saved temporarily. 	
	<p>(1 mark each for any three ways in which Windows Movie maker uses a temporary file storage location) (2 marks for the steps)</p>	