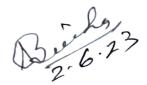
Paper: MN2A		Year : First		Semester -II			
Subject : N	Subject : Mathematics						
	Course Code : N	ИN2A	Course Title : Computer Basics & Multimedia				
Course Lear	nimg Outcome	es:					
CO2 : Devel	ops the ability t	o work with comp	uters and its applica uters using various uters using multim	networks/Internet.			
Credit: 3+1	(Th+ Pr.)		Max. Marks	arks : 60+15+25			
Full Marks :	60		Time : 3 Ho				
Unit		Topic		No. of Lectures			
I	INTRODUCTION: Introduction to computer, Basics of computers and its operation, History of computer, Capabilities and limitations of computers, Types of computers, Hardware and Software, various storage						
II	devices. WINDOWS OPERATING SYSTEM: Basics of operating system, The User Interface (Task Bar, Icons, Menu, running an application), File and Directory Management (Creating and renaming of files and directories), Operating System Simple Setting (Changing System Date and Time Changing Display Properties, To Add or Remove a Windows Component, Changing Mouse						
III	Properties). UNDERSTANDING WORD PROCESSING AND SPREAD SHEET: Word Processing Basics, Opening and Closing Documents, Text creation and manipulation, Formatting the Text, Elements of Electronic Spread						
IV	Sheet, Manipulation of Cells. MULTIMEDIA: Introduction to multimedia, components, uses of multimedia, multimedia applications, virtual reality. Text: Fonts & Faces, Using Text in Multimedia, Font Editing & Design Tools, Hypermedia & Hypertext. Images: Still Images – bitmaps, vector drawing, 3D drawing & rendering, natural light & colors, computerized colors, color palettes, image file formats. Sound: Digital Audio, MIDI Audio, MIDI vs Digital Audio, Audio File Formats. Video: How video works, analog video, digital video, video file formats, video shooting and editing.			nats. udio,			



Sessional Internal Assesment (SIA) Full Marks – 15 Marks

- A Internal written Examination 10 Marks (1 Hrs)
- B Over All Performance including Regularity 05 Marks

Books for reference:

- 1. Peter Norton, Introduction to Computers, sixth Edition, Tata McGraw Hill (2007)
- 2. Deborah Morley, Charles S.Parker, Understanding Computers today and tomorrow, 11th Edition, Thomson (2007).
- 3. Tay Vaughan, —Multimedia: Making it work||, TMH, Eighth edition.2011
- 4. Ralf Steinmetz and KlaraNaharstedt, —Multimedia: Computing, Communications Applications, Pearson.2012
- 5. Keyes, —Multimedia Handbook, TMH,2000.
- 6. K. Andleigh and K. Thakkar, —Multimedia System Design, PHI.2013

Practical:

Practical exercises based on MS Office/ Open Office tools using document preparation and spreadsheet handling packages & practical exercises based on concepts listed in theory using Flash/ GIMP/ PhotoShop/ Animation Tools/ Image Editors/ Video Editors

MS Word

- 1. Prepare a grocery list having four columns (Serial number, The name of the product, quantity and price) for the month of April, 2022.
 - (a) Font specifications for Title (Grocery List): 14-point Arial font in bold and italics.
 - (b) The headings of the columns should be in 12-point and bold.
 - (c) The rest of the document should be in 10-point Times New Roman.
 - (d) Leave a gap of 12-points after the title.
- 2. Create a telephone directory.
 - (a) The heading should be 16-point Arial Font in bold
 - (b) The rest of the document should use 10-point font size
 - (c) Other headings should use 10-point Courier New Font.
 - (d) The footer should show the page number as well as the date last updated.

D. 6.23

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D. 6.23

- 3. Design a time-table form for your college.
 - (a) The first line should mention the name of the college in 16-point Arial Font and should be bold.
 - (b) The second line should give the course name/teacher's name and the department in 14-point Arial.
 - (c) Leave a gap of 12-points.
 - (d) The rest of the document should use 10-point Times New Roman font.
 - (e) The footer should contain your specifications as the designer and date of creation.
- 4. BPB Publications plans to release a new book designed as per your syllabus. Design the **first page of the book** as per the given specifications.
 - (a) The title of the book should appear in bold using 20-point Arial font.
 - (b) The name of the author and his qualifications should be in the center of the page in 16-point Arial font.
 - (c) At the bottom of the document should be the name of the publisher and address in 16-point Times New Roman.
 - (d) The details of the offices of the publisher (only location) should appear in the footer.
- 5. Create the following one-page documents.
 - (a) Compose a note inviting friends to a get-together at your house, including a list of things to bring with them.
 - (b) Design a certificate in landscape orientation with a border around the document.
 - (c) Design a Garage Sale sign.
 - (d) Make a sign outlining your rules for your bedroom at home, using a numbered list.

MS Excel

1. Enter the Following data in Excel Sheet

REGIONAL SALES PROJECTION

State Delhi Punjab U.P.	Qtr1 2020 1100 3000 1800	Qtr2 2400 1300 3200 2000	Qtr3 2100 1500 2600 2200	QTR4 3000 1400 2800 2700	Qtr Total	15 20 17 15
Haryana	1800	2000				20
Rajasthan	2100	2000	1800	2200		

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TOTAL AVERAGE

(a) Apply Formatting as follow:

- i. Title in TIMES NEW ROMAN
- ii. Font Size 14
- iii. Remaining text ARIAL, Font Size -10
- iv. State names and Qtr. Heading Bold, Italic with Gray Fill Color.
- v. Numbers in two decimal places.
- vi. Qtr. Heading in center Alignment.
- vii. Apply Border to whole data.
- (b) Calculate State and Qtr. Total
- (c) Calculate Average for each quarter
- (d) Calculate Amount = Rate * Total.

2. Given the following worksheet

	Α	В	С	D
1. 2. 3. 4. 5.	Roll No. 1001 1002 1003 1004 1005	Name Sachin Sehwag Rahul Sourav Har Bhajan	Marks 99 65 41 89 56	Grade

Calculate the grade of these students on the basis of following

guidelines: If Marks	Then Grade
>= 80	A+
>= 60 < 80	Α
>= 50 < 60	В
< 50	F

Box 27

3. Given the following worksheet

	Α	В	С	D	E	F	G
Salesman Sales in (Rs.)							
	No.	Qtr1	Qtr2	Qtr3	Qtr4	Total	Commission
1.	S001	5000	8500	12000	9000		
2.	S002	7000	4000	7500	11000		
3.	S003	4000	9000	6500	8200		
4.	S004	5500	6900	4500	10500		
5.	S005	7400	8500	92008	8300		
6.	S006	5300	7600	9800	6100		

Calculate the commission earned by the salesmen on the basis of following:

If Total Sales	Commission
< 20000	0% of sales
> 20000 and < 25000	4% of sales
> 25000 and < 30000	5.5% of sales
> 30000 and < 35000	8% of sales
>= 35000	11% of sales

The total sale is sum of sales of all the four quarters.

4. Use an array formula to calculate Simple Interest for given principal amounts given the rate of Interest and time

Rate of Interest	8%		
Time	5 Years		
Principal	Simple Interest		
1000	?		
18000	?		
5200	?		

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5. The following table gives year wise sale figure of five salesmen in Rs.

Salesman	2000	2001	2002	2003
S1	10000	12000	20000	50000
S2	15000	18000	50000	60000
S3	20000	22000	70000	70000
S4	30000	30000	100000	80000
S5	40000	45000	125000	90000

- (a) Calculate total sale year wise.
- (b) Calculate the net sale made by each salesman
- (c) Calculate the maximum sale made by the salesman
- (d) Calculate the commission for each salesman under the condition. If total sales >4,00,000 give 5% commission on total sale made by the salesman otherwise give 2% commission.
- (e) Draw a bar graph representing the sale made by each salesman.
- (f) Draw a pie graph representing the sale made by salesman in 2000.

Implement the followings using Flash-

- 1. Create an animation using the tools panel and the properties panel to draw the following—Line, oval, circle, rectangle, square, pencil, brush, lasso tool.
- 2. Create an animation using text tool to set the font, size, color etc.
- 3. Create an animation using Free transform tool that should use followings-

Move Objects

Skew Objects

Stretch Objects

Rotate Objects

Stretch Objects while maintaining proportion

Rotate Objects after relocating the center dot

- 4. Create an animation using layers having following features-Insert layer, Delete layer, guide layer, Mask layer.
- 5. Modify the document (changing background color etc.) using the following tools-

Eraser tool

Hand tool Ink

bottle tool

Zoom tool

Paint Bucket tool

Eyedropper tool

Experiments – 15 Marks
Viva Voice- 05 Marks
Practical Records – 05 Marks

B-6-23