MS Office Excel 2007

A Book For Expert In Excel





HaCkEr InDiA {HI}

Special Credit:- WEBEL Gotan

Microsoft Office Excel 2007

MS Office Excel file extension = .xlsx

<i> What is MS Excel?

=>> MS Excel is a spreadsheet application developed by Microsoft for Microsoft windows. It includes all features of spreadsheet package like recalculation graphs fiction and also provides many types of functions.

- · Different Parts Of MS Excel:-
- (a) Worksheet:- Worksheet is a collection of cells, where you can keep and manipulate the data. By default, each Excel worksheet contains 3 worksheets.
- (b) Spreadsheet:- A spreadsheet is a sheet of paper that shows accounting of other data in rows and columns. A spreadsheet is generally designed to hold numerical data and short text strings. Spreadsheets usually provide to portray data relationships graphically. Example:- MS Excel, Visicale Lotus 1-2-3
- (c) Workbook:- Excel files are called work books, whenever you start a new project in excel you will need to create a new work book.
- How to open MS Excel 2007?
- =>> Start Menu→All Programs→MS Office→MS Office Excel→Enter Or,

Start→Run→Type(Excel)→Enter

	A	В	С	D	E	F	G	н	T.	J	К
1	Name	English	Bengali	Math	Geography	Biology	Total	Average	Division	Rank	Grade
2	NM1	55	62	85	60	50					
3	NM2	65	74	84	84	60					
4	NM3	54	54	56	56	57					
5	NM5	75	62	57	63	52					

(A) Functions:-

- a. Total:-=SUM(B2:F2)
- b. Average:- =AVERAGE(B2:F2)
- c. Division:-=IF(H2>=70,"1st Division",IF(H2>=60,"2nd Division",IF(H2>=50,"3rd Division","Fail")))
- d. Rank: = RANK(G2, G\$2: G\$5)
- e. Grade:-

```
=IF(B2>=80, "A+", IF(B2>=70, "A", IF(B2>=60, "B+", IF(B2>=50, "B", IF(B2>=45, "C", "D")))))
```

(B) Mathematical Functions:-

- 1. Sum Function:- This function adds all the numbers in a range of cells. Example-=SUM(B2:F2)
- 2. Max Function:- This function returns the largest value in range of cells. Example-=MAX(B2:F2)
- 3. Min Function:- This function returns the small value in range of cells. Example-=MIN(B2:F2)
- 4. SQRT Function:- This function returns the positive square root of any positive number. Example=SQRT(25)
- 5. Round Function:- This function used to round of a number. Example=ROUND(12.123456,2)
- 6. Fact Function:- This function is used to find out the factorial value of a number. Example- =FACT(5)
- 7. Mod Function:- This function is used to find out returns the reminder after a number is devided by a divisor. Example-=MOD(26,5)
- 8. Power Function:- This function calculates a given number raised to a supplied power. Example=POWER(8,3)
- 9. Product Function:- This function is used to find out the multiply value from a list of numbers. Example=PRODUCT(7,3)
- 10. Sumif Function:- This function can be used to add the cells specified by given condition criteria. Example=SUMIF(A1:B1,">100")

- 11. LCM Function:- This function is used to return the List Command Multiple. Example- =LCM (A1:B1)
- 12. GCD Function:- It is used to return the Greatest Command Divisor. Example- =GCD(A1:B1)
- 13. Int Function:- This function is used to find out the nearest integer value of a list of numbers. Example-=INT(-5.25)
- 14. Now Function:- This returns the current system date & time format. Example- =NOW ()
- 15. Today Function:- This function returns the current date formatted as a date. Example-=TODAY()
- 16. Datedif Function:- This function used to calculate the current age. Example=DATEDIF(A1,B1,"Y")&"Years"& DATEDIF(A1,B1,"YM")&"Months"& DATEDIF(A1,B1,"MD")&"Days"
- 17. Concatenate Function:- Joins two or more text into one text string. Example- =CONCATENATE (A1:B1)
- 18. Code Function:- It returns a numerical code for the first character in a text trired. Example=CODE(A1)
- 19. Left Function:- It returns the specified numbers of characters from the start of a text strings. Example- =LEFT(A1,4)
- 20. Right Function:- It returns the specified numbers of characters from the end of a text strings. Example-=RIGHT (A1,2)
- 21. Len Function:- It returns the numbers of characters in a text string. Example- =LEN(COMPUTER), =LEN(A1)
- Total Number Of Columns XFD [Ctrl+→]

Rows — 1048576[Ctrl+ \downarrow]

Employee Table

	А	В	С	D	E	F	G	Н	ï
1	Department	Basic	Dareness Allowance	House Rent Allowance	Traveling Allowance	Medicialm	Provident Fund	Gross	Net
2	Accountant	12000							
3	Clerk	5250							
4	Office	15500							
5	Accountant	17000							
6	Peon	8000							
7	Clerk	7000							
8	Admin	21000							

- Formulas:-
- 1. Dareness Allowance:-

=IF(B2>=15000,B2*12.5%,IF(B2>=10000,B2*9.5%,B2*7%))

2. House Rent Allowance:-

=IF(A2="Accountant",B2*5.5%,IF(A2="Clerk",B2*5%,0%))

- 3. Traveling Allowance:- =B2*10%
- 4. Mediclaim:- =B2*5%
- 5. Provident Fund:-

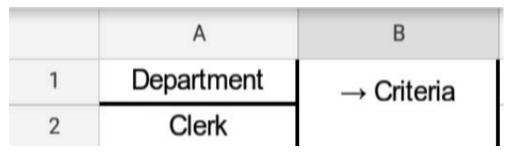
=IF(B2>=15000,B2*10%+500,IF(B2>=10000,B2*10%+200,B2*5%+200))

- 6. Gross:-=SUM(B2:G2)
- 7. Net:- =(H2-G2)
- Filter:- There are two types of filter.
- (i) Auto Filter:-

Condition 1= Select the data range from A2:I1→Data Menu→Sort and Filter Tab→Filter

Condition 2= Click on Basic→Select All(Number filter)→ Number Filters→Greater Than→Type The Basic Range(Like 1000)→Ok

(ii) Advance Filter:- At first type in the cells



Select All The Dataset→Specify The Criteria Range→Data Menu→Advance Filter→Select Copy to Another Location→Fill Up The Form(List Range:- Refer The Dataset, Criteria Range:- Type Specified Criteria Range, Copy to:- Specify the location where you want to see the result)→Copy Unique Records Only—Check This Option→Ok

• V-LOOK-UP (Vertical Look Up):- It looks for a value in the left most column of a table and then returns a value in the same row from a column that you specify.

Syntax:- =VLOOKUP(lookup_value,table_array,col_index_num,range_lookup)

=VLOOKUP(D1,A1:C6,3,0)

	A	В	С
1	Item	Quantity	Price
2	CPU	4	3200
3	M.Board	5	4500
4	Mouse	2	300
5	Pendrive	10	120
6	DVD	5	1000

• $H-LOOK-UP(Horizontal\ Look\ Up):-$ It looks for a value in the top row of a table or array of values and returns the value in the same column from a row that you specify.

Syntax:- =HLOOKUP(lookup_value,table_array,row_index_num,range_lookup)

=HLOOKUP(E1,A1:D4,4,0)

	Α	В	С	D	
1	Products	Mobile	Head Phone	Memory Card	
2	Serial No	1234	1465	123	
3	Quantity	10	15	10	
4	Price	18000	15000	5000	

• SUMIF:- Adds the cells specified by a given condition or criteria.

Syntax:- =SUMIF(range,criteria,sum_range)

=SUMIF(A2:A6,D1,C2:C6)

	Α	В	С
1	Category	Item	Price
2	Fruits	Mango	20
3	Mobile	MI	15000
4	Books	English	250
5	Fruits	Orange	20
6	Books	Math	170

• SUMIFS:- Adds the cells specified by a given set of condition or criteria.

Syntax:- =SUMIFS(sum_range,criteria_range_1,criteria_1,criteria_2.....)
=SUMIFS(C2:C5,A2:A5,"Apple",B2:B5,"Ram")

	Α	В	С
1	Fruits	Supplier	Quantity
2	Apple	Ram	10
3	Mango	Shyam	25
4	Orange	Jadu	5
5	Apple	Ram	7

Simple Interest:- Simple interest means that interest payments are not compounded – the interest is applied to the principal only.

	A	В
1	Loan Amount	15000
2	Interest Rate	6.02
3	Terms In Month	2
4	Total Interest	1806
5	Amount+Interes	16806

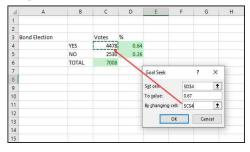
Goal Seek

	А	В	С	D	E	F
1	Name	Roll	Bengali	English	Mathematics	Total
2	Arun	A001	85	20	36	141
3	Barun	A002	56	42	45	143
4	Tarun	A003	30	25	59	114
5	Kiran	A004	80	75	90	245
6	Mala	A005	70	65	40	175

(1) What Goal Seek Work?

=> It Used to update a table data.

Step:- Select Any Total Number→Data Menu→Data Tools Command Group→Whatif Analysis Option→Goal Seek



→Ok→Ok

Conditional Formatting

• It is used to highlight the specific data.

Step:- At first select the student table \rightarrow Style Command Group \rightarrow Conditional Formatting \rightarrow Highlights Cells Rules \rightarrow Choose Greater Than, Less Than, Between \rightarrow Enter The Number On The Cell And Select Any Color \rightarrow Ok

- 1. How to insert a column/row?
- $=> Select\ Any\ Column \rightarrow Home \rightarrow Cells\ Command\ Group \rightarrow Insert\ Button \rightarrow Select\ Insert\ Sheet\ Column\ Option/Row$

- 2. How to insert a worksheet?
- => Right Click On The Sheet Name Insert Choose Worksheet→Ok
- 3. How to rename a worksheet?
- => Right Click On Any Sheet Name→Rename→Type The New Name→Click On The Page→Ok
- 4. How to delete cells?
- => Right Click On Any Cell→Delete
- 5. How to add tab colour?
- => Right Click On Any Sheet→Tab Color→Select Any Colour
- 6. How to change row hight value?
- => Select Any Row→Home→Cell Command Group→Format Button→Row Hight Option→Change The Value→Ok
- ,By default row hight value 15 inch.
- 7. How to change column width value?
- => Select any column→Home→Cells command group→Format Button→Coloumn width option→Change The Width Value→Ok
- ,By default columns width value 8.43 inch
- 8. How to protect your sheet?
- => Home Menu→Cells Command Group→Format Button→Protect Sheet Your Password→Ok→Re-Enter Your Password→Ok
- 9. How to Unprotect Your Sheet?
- => Home Ribbon→Cells Command Group→Format Button→Unprotect Sheet→Type Your Previous Password→Ok
- 10. How to protect your excel file with a password?
- Step:- Office Button→Prepare→Encrypt Document→Type Your Password→Ok



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Special Credit:- WEBEL Gotan

Address:- Near Gotan Collage, East Bardhaman, West Bangle, India