# Tips, Formulae and shortcuts for Permutations and Combinations 

## By

CRACKU.IN

## \$ SBLLV 5 JQ o 1 ESN VUBLPOT \$ PN CJOBUPOT

- 1 FSNVBUPOT \$ PNCJOBUPOTJTBOFYSFNFM JNQPSBOUIPQIDJO\$ " 5
- 5I JTUPQDDBOCF UFNPTUSFXBSEJOHIPQIDJORVBOUIFDIPO
- 6 OMLF OMNCFSTZIUNTRVFIUPOT NPTUPGU FIF RVFIUPOTHFOFBBWZ URL NTIIFS UNF EP TPMK
- " MP UFZ BSF FFFSBIMK CBISM CBIJDJOOBUSF

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## \$ SBLLV 5 JQ o 1 FSN VUBPOT \$ PN CJOBUPOT

- 5IF NPSF RVFIUPOTZPVTPNAF UF CFUFSZPVXJNMFUBUUJTUQID
- 4P NAPLUSPVH UF CPSN WBNIIUBGFX UNFTBOE VOEFSTIBOE UF CPSNVNF
- \# UUF CFIUXBZ एP LBLNA UJTVCKEDUTCZ TPNAOHRVFIUPOT
- 4PNF BTNBCZ RVFIUPOTBTZPVDBO $\operatorname{CPN}$ UJTUPQDU BLZPVXJNMIBSUIP TFF UBUBIWPGUFN BFF HFOFSBIN WBSIBUPOTPGUFTBNF GFX UFNFTUBU BSF NIILFE JOUF CPSN WENIIU


## \$ SBLLV5JQ o 1 ISN VUBLPOT \$ PN CJOBUPOT

- / / / / / y y
- $\quad \$_{S} \frac{n!}{(n-r)!r!}$
- $\mathrm{ol}_{\mathrm{S}} \frac{\mathrm{n}!}{(\mathrm{n}-\mathrm{r})!}$


## \$ SBILV5 JQ o 1 ISN VUBUPOT \$ PN CJOBLPOT

- "SSBOHNFOU

OJFFNTDBOCF BSSBOHFE JOO XBZT

- 1 FSN VBLPO
" XBZ PGIFNHDIOHBOE BSSBOHOHSPCKATPVPGBTFUPGOPCKATI $O_{S} \frac{O}{(O \& S)}$
- \$ PN CJOBLPO
" XBZ PGIFNIDJOHSPCKATPVPGO BSSBOHNFOUEPFTOPUNBLUFS

$$
\mathrm{O}_{\mathrm{S}} \frac{\mathrm{O}}{(\mathrm{ORS}) \mathrm{r}!}
$$

> " ) . \#" \$ \& 5 - JW4 4FTIJPOT
> I UOT XXX ZPVVCF DPN D BOOFMS \$ K O DA Z \# (\$ + W CP2

## \$ SBILV5JQ o 1 ISN VUBUPOT \$ PN CJOBLPOT

 $\mathrm{O}_{\mathrm{S}} \quad \mathrm{O}_{\mathrm{os}}$

- 5PLBMIFHILUPOTUBUBBOCFNBEF GPN AD ETUCDUUENTJTHWO $\sum_{\mathrm{L}}^{0} \$_{\mathrm{L}}$

1 NABIF +PJO. \#" 1SFQBSBUPOUNAHSBN HSPVQ
I UOT UNF \$ BI8 JU\$ SBDLV

## \$ SBLLV 5 JQ o 1 FSN VUBLPOT \$ PN CJOBLPOT

## 1 BSULPOIOH

- / WNCFSPGXBZTएP QBSUJJPOOJEFOUDBMIJOHTJOSEJIUODUINIUJTHJWOCZ o se ${ }^{\text {set }}$
- / WNOFSPGXBZTएP QBSUJPOOJEFOUDBMI JOHTJOSE IUODUINHUTP UBUFBD THUUFUBLNABIU JTHWFOCZ ${ }^{\text {ak }} \$_{\text {se }}$
- / VNCFSPGXBZTP QBSUUPOOEJUODU JOHTJOSEJTUODINAUJTHWFOCZ §
- / WNCFSPGXBZTLP QBSUUPOOE IUODUU JOHTJOSEJUODUINGUXI FSF BSSBOHNFOUNBUTFST $\frac{\mathrm{OS} \text { S\& }}{\mathrm{S} \mathrm{\&}}$


## \$ SBILV5JQ o 1 ISN VUBLPOT \$ PN CJOBLPOT

## " SSBBHN FOUXJI SFQFUPOT

*GY JIFNTPVPGOJשFNTBSF SFQBUFE UFOUF OMNCFSPGXBZTPGBSSBOHOH
UFIF OJUNTJT $\frac{n!}{x!}$ XBZT *GBJHNT C JIFNTBCE DJUNTBSF SFQBLFE XJU JOO
*GY JIFNTPUPGOJLFNTBSF SFQBUFE UFOUF OUNCFSPGXBZTPGBSSBOHOH
UFIF OJLFNTJT $\frac{\mathrm{n}!}{\mathrm{x}!}$ XBZT *GBJHNT C JHNTBOE DJUNTBSF FFFBLFE XJUJOO JHNT UFZ DBOCF BSSBOHE JO $\frac{n!}{a!b!c!}$ XBZT.

## crackus

## \$ SBILV 5 JQ o 1 FSN VUBLPOT \$ PN CJOBLPOT

## 3 BOL PGB XPSE

- 5P HFUUF FBCL PGB XPSE JOUF BII BCFUDBMNILPGBMWFSN VBUPOTPGUF XPSE TIBSUXJU BIU BCFUDBIWE BSSBOHOHUF ONIUFST *GU FSF BSF Y NIUFSTI JH FSUBOUF GSIUMIUFSPGUF XPSE UFOUFSF BSF BUNBIUY O 8 PSETBCPWF PVSXPSE
- " GFSSFNPWOHUF GSTUBGGYFE NHUFSGSN UF TFUGU FSF BSF Z NHIFESTBCPWF UF TILPPOE NHUFSUFOU FSF BSFZ O XPSETNPSF CFCPSF ZPVSXPSE BOE TP PO 4P SBCLPGXPSE Y O Z O

'PSSFF. " ) . \#" \$ \& NPLTWIJU<br>I UQT DSBLLVJONBI NCB DFUNPD WFTU

## \$ SBILV5 JQ o 1 ISN VUBUPOT \$ PN CJOBLPOT

*OFHSBM P PNUPOT

- / WNCFSPGQPTUNF JOUFHBBMPNMJPOTए Y Y Y
$\mathrm{Y}_{\mathrm{O}}$ TXI FSFT6 $J T^{\text {te }} \$ 0$
- / VNCFSPGOPO OFHBUWF JOFHBBMPMMJPOTUP Y Y Y $\quad \mathrm{Y}_{\mathrm{O}} \quad$ TXI FSF T6 $\quad \mathrm{T}^{\mathrm{O}} \mathrm{Tx}{ }^{\mathrm{d}}$ Q


## \$ SBILV 5 JQ o 1 FSN VBBLPOT \$ PN CJOBLPOT

## \$ SDVNS BSSBOHN FOU:

/ WNGFSPGXBZTPGBSSBOHOHOJUFNTBSPVOE BDISWA BSF CPSO BOE O ©PSO6 *GITBOFDNMIF PSCSBLFNUUBUDBOCF CMDQFE PWF UF QPTICIMUFTBSF $\frac{(\mathrm{n}-1)!}{2}$

## \%ASBOHN FOU

*GOEJTUODULFNTBSF BSSBOHE UF OWNCFSPGXBZTUFZ DBOCF BSSBOHE TP UBU UFZ EP OPUPDDVQ UFISJOFOEFE TQPUT

$$
\left.\% \quad \text { O } \frac{1}{0!}-\frac{1}{1!}+\frac{1}{2!}-\frac{1}{3!}+y \text { y } \frac{(-1)^{\mathbf{n}}}{n!}\right)
$$

# Wænt a firee guidmnce for MAB MBA CET from IIIM alumini 

WhatsApp 'MBA' to +91

# " ) . \#" \$ \& 5 - JWF 4FTIJPOT <br> I UCOT XXX ZPVUCFDPN D BOOFM $\$$ K 

CP2

1 NBBIF +PJO. \# " 1 SFQBSBUPOLFNAHSBN HSPVQ
I UQT UNF \$ BI8 JU \$ SBLV
, PSBCZ RWFSIFTQNBBIF DBWWTBU

