Q# How many four letter words be made from FASTING?

Q# $\begin{bmatrix} 2 & 0 \\ 0 & 9 \end{bmatrix}$ find determinant of A^2.

Q# $2\cos 45° + i2\sin 45°$

Q# $\int_{-\frac{\pi}{2}}^{0} (x+\cos x)\,dx$

Q# Find A and B if $5x^4+x^3+2x^2+Ax+B=0$

Q# $C = 2\cos\theta + i\sin 2\theta$ then:
(A) $C^2 = 4+4i$ (B) $C^2 = 0+4i$
(C) $4+0i$

Q# Find x if three consecutive geometric progression are 2, x, 0.5 and their sum is

Q# Find the Sum of all the numbers between 100 to 200 who are divisible by 7?

Q# Find distance of two equations $x^2+y^2=0$ & $x^2+4y^2=27$

(1) Area of Rectangle of coordinates (Random)

(2) $\int_{1}^{2} \frac{1}{2y^3}\,dy$

(3) $(3)^{2n+1} = 9(3)^{-n}$ find n

(4) Find determinant of A^2 if $A = \begin{bmatrix} 2 & 0 \\ 0 & 2 \end{bmatrix}$

(5) How many 3 letter secret code can be made from word PAKISTAN if repetition is allowed?

(6) $\log_x 5 = 4 \log_5 x$

(7) $\frac{d}{dx} e^{5-x}$

(8) Find two numbers if sum is 33 and difference is

(9) Solution range of $x^2 > 10x - 11$ is :

(10) $2\sin x \cos x = 2\sin(2x)$ Which verify?

(11) $\sin x = -1/\sqrt{2}$ find x=?
Ans: $-45°, -135°$

(12) Find gradient : $\frac{4}{x^2} + \ldots$ at $(2, -5)$

(13) Sector of circle which has acute angle COQ and its perimeter 20cm with area $10m^2$. Find r and θ?

(14) In Sports Club of 117 people, 45 people play hockey, 55 people play cricket, 35 play both cricket, find number of people

(15) $2\cos 45 + i2\sin 45 =$

(16) $u = 2\cos 45 + i2\sin 45$, $v = 3\cos 45 + 2\sin 45 i$
Find $u \times v$

(17) Sum of numbers btw 110 and 240 divisible by 7.

(18) In A.P having terms 1, 6 and 11. Find Sum of first 12

(19) Curve ~~any~~ equation passes through the origin, the tangent passing It is ____

(20) $A = \begin{bmatrix} 1 & 2 & 3 \end{bmatrix}^t$ $B = \begin{bmatrix} 4 & 5 & 6 \end{bmatrix}^t$
Find AB. (Vectors)

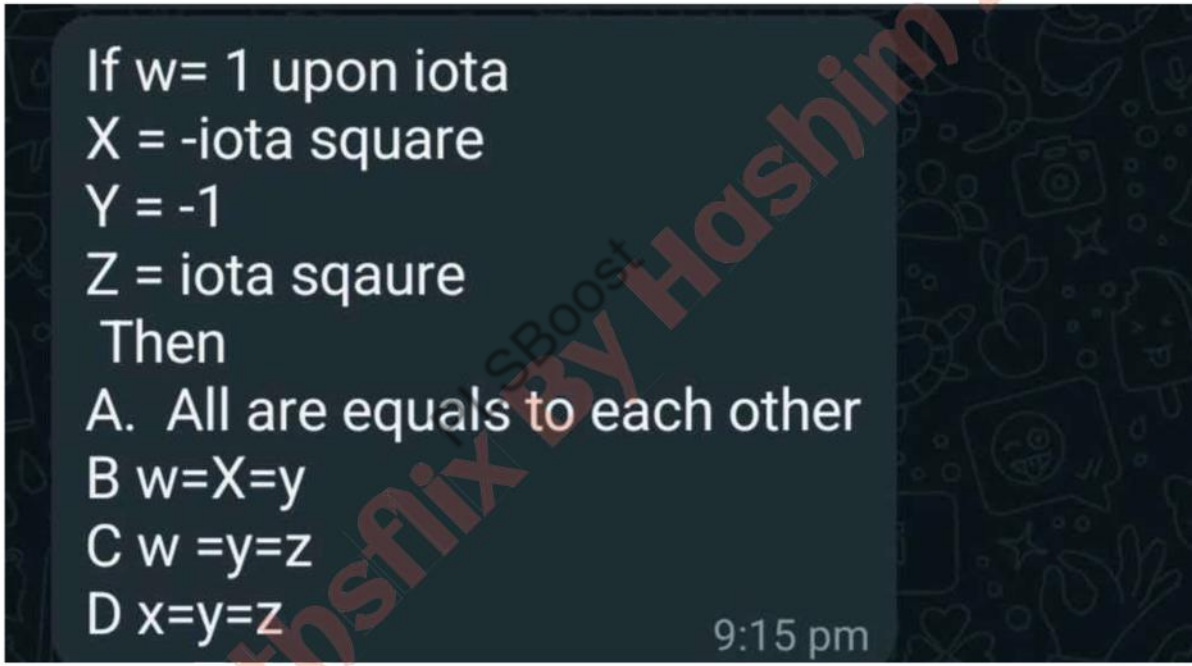
(21) $AB = \sqrt{73}$, Find B if A is A(6,5,7).

(22) Convert 25 ms^{-1} to kmh^{-1}.

(23) Work done ~~by proton~~ by electron having charge e to revolve around proton in fixed radius r is:

(24) If two people are approaching each other with 4 ms^{-1} and meet each other after 75 minutes. What relative distance?

(25) A fluid pipe is going through horizontal surface then Pressure at wider end of pipe is ?



$e^{n \ln a} = a^n$

Take log on b/s

$\log(e^{n \ln a}) = \log a^n$

$n \ln a = n \log a$

computer:

c programming mai say bohat mcqs aye the

1st year computer chap 2 chap3 chap 6(2 ya 3mcqs)

physics:

chap12

if q1,q2,q3 are placed in vaccum. and the electric flux of all charges is zero. Then which statement is correct:

a) q1+q2+q3=0

b) q1=q2=q3

c) q1q2=q2q3

d) q1=q2

and energy density sy aik numerical tha

chap 13

maximum power say mcq or minimum power sy.

resistors combination say aik mcqs

chap 16

vrms say aik mcqs

transformers connect to dc type aik tha

2nd half say mcqs shayad koe aik aya ho ga.

physics 11th:

chap2

d) q1-q2
and energy density sy aik
numerical tha
chap 13
maximum power say mcq or
minimum power sy.
resistors combination say aik
mcqs
chap 16
vrms say aik mcqs
transformers connect to dc type
aik tha
2nd half say mcqs shayad koe aik
aya ho ga.
physics 11th:
chap2
three forces are 7N,4N,8N. what is
resultant and its magnitude?
chap 3 elastic collision say 2 mcq
the
chap 5 circular motion say 2, 3
mcqs the
orbital velocity find krne the.
chap 6 aik aya tha
chap 7 say SHM say tha K.E
energy pochi the
chap 11 say carnot engine say aik
tha

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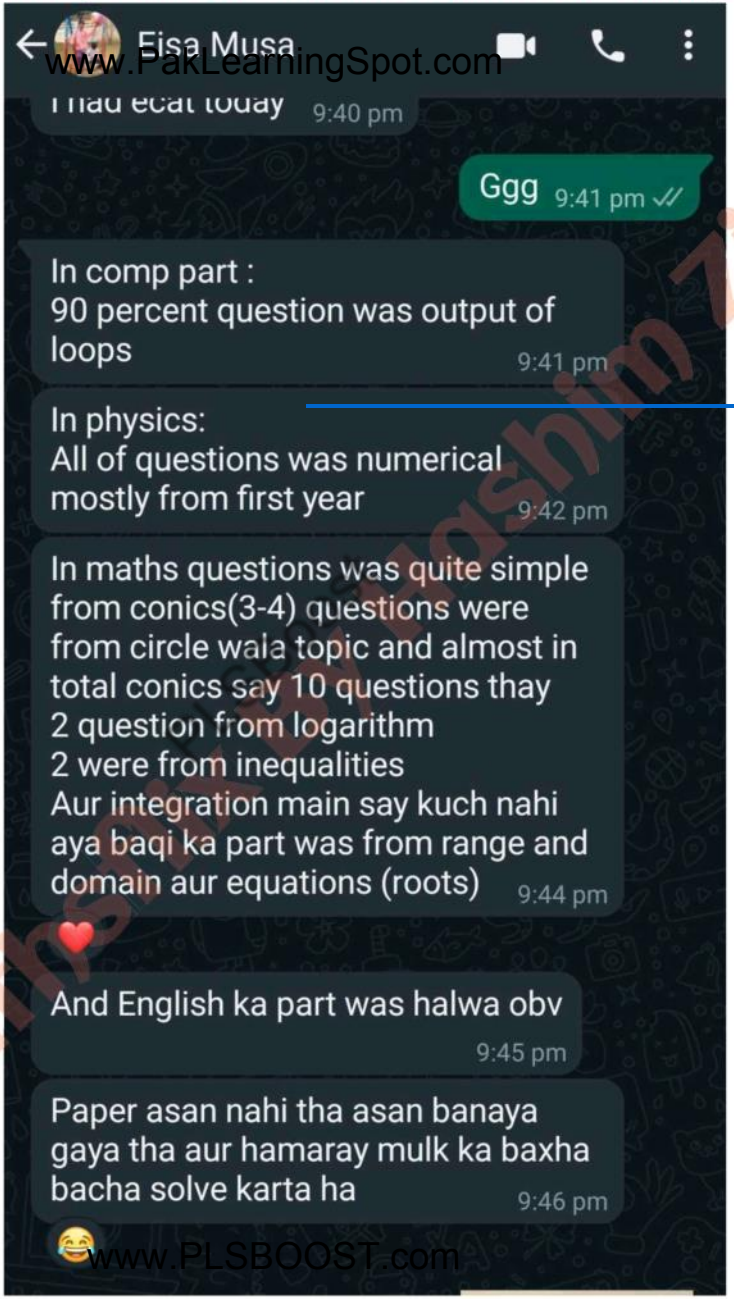
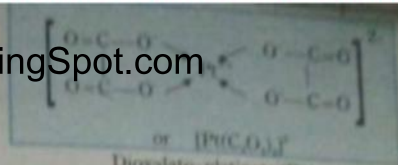
Math Part 2:
concic sections say kafi mcqs the
like aik Eq of tangent find krne the

Math Part 2:
concic sections say kafi mcqs the like aik Eq of tangent find krne the
Chap 4:
say bhi 3,4 mcqs aye the.
points or equation de keh
distance find krna tha
like what is distance at orgin and
y=2x-1
integration say aik aye tah limit wala
derivative say 2 aye the
vectors say 1ya 2 aye the. 11:18 am

Math part 1:
complex no
c1 × c2 say kal wala mcq repeat hua tha.
matrix ka A^2 nikalna tha.
chap 4 say 3 mcqs the
roots nikalna tha Eq given the.
or synthetic division say aik aya tha.
chap6 :
AP say 2 mcqs the.
chap 7
how many three code word can be form the word fasting?
combination say aik aya tha.
trinomial say 2-3 aye the 11:18 am



When two oxalato ligands $C_2O_4^{2-}$ (bidentate ligand) get coordinated with Pt^{2+} ion, dioxalato-platinate (II) ion is formed. Each oxalate ligand forms a five membered ring with the cation.



or $[Pt(C_2O_4)_2]^{2-}$

Dioxalato- platinate (II) ion

Nomenclature

The nomenclature of complex compounds is based upon the recommendations by Inorganic Nomenclature Committee of IUPAC.

The rules for naming the complex compounds are as follows.

- Cations are named before anions.
- In naming the coordination sphere, ligands are named in alphabatical order regardless of the nature and number of each, followed by the name of central metal ion.
- The prefixes di, tri, tetra, penta, hexa, etc, are used to specify the number of coordinated ligands.
- The names of anionic ligands end in suffix O, e.g, hydroxo, (OH^-) carbonato (CO_3^{2-}).
- The names of neutral ligands are usually unchanged, e.g. for NH_3, ammine and for H_2O, aqua.
- The suffix 'ate' comes at the end of the name of metal if the complex represents an anion,otherwise it remains unchanged.
- The oxidation number of the metal ion is represented by a Roman numeral in parenthesis following the name of the metal.

Examples: $K_4[Fe(CN)_6]$ Potassium hexacayno ferrate (II)

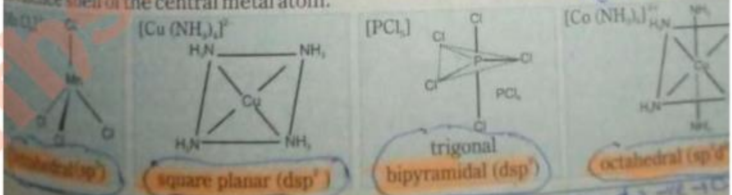
$[PtCl(NO_2)(NH_3)_4]SO_4$ Tetraammine chloronitro-platinum (IV) sulphate

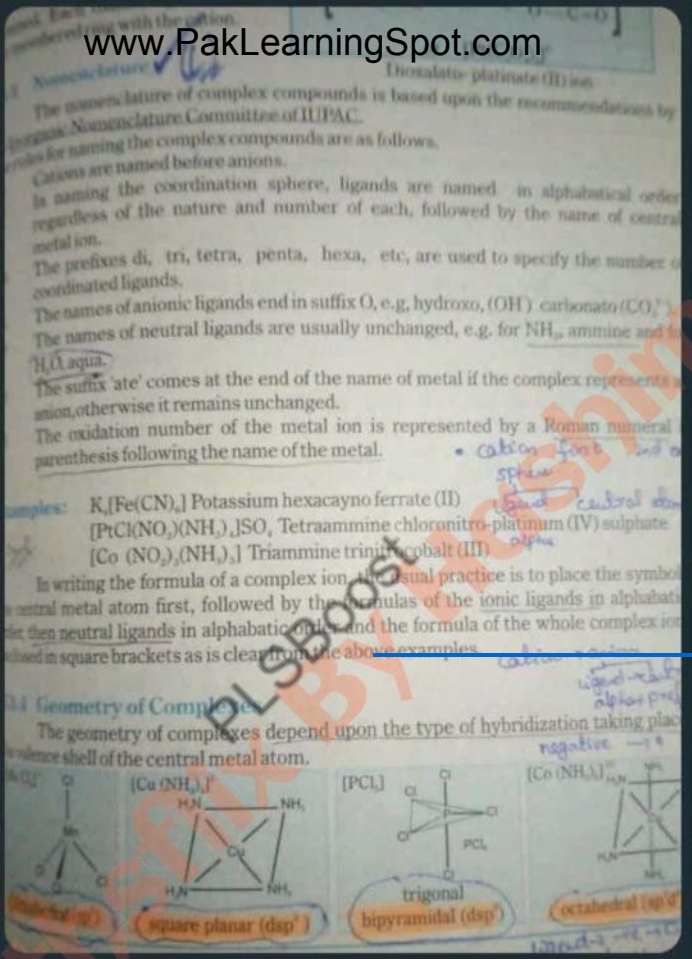
$[Co(NO_2)_3(NH_3)_3]$ Triammine trinitrocobalt (III)

In writing the formula of a complex ion, the usual practice is to place the symbol of central metal atom first, followed by the formulas of the ionic ligands in alphabatic order then neutral ligands in alphabatic order and the formula of the whole complex ion enclosed in square brackets as is clear from the above examples.

Geometry of Complexes

The geometry of complexes depend upon the type of hybridization taking place in the valence shell of the central metal atom.





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square planar (dsp^2)

trigonal bipyramidal (dsp^3)

octahedral (sp^3d^2)

Jinka bi ecat hai aaj yeh nomenclature or names dekh ke jaiyai ga kl MCq tha iske barei mei

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