



CBSE / TN STATE Board

Exam Preparation

For STD IX – STD XII Students

Presented by

E. Ramanathan

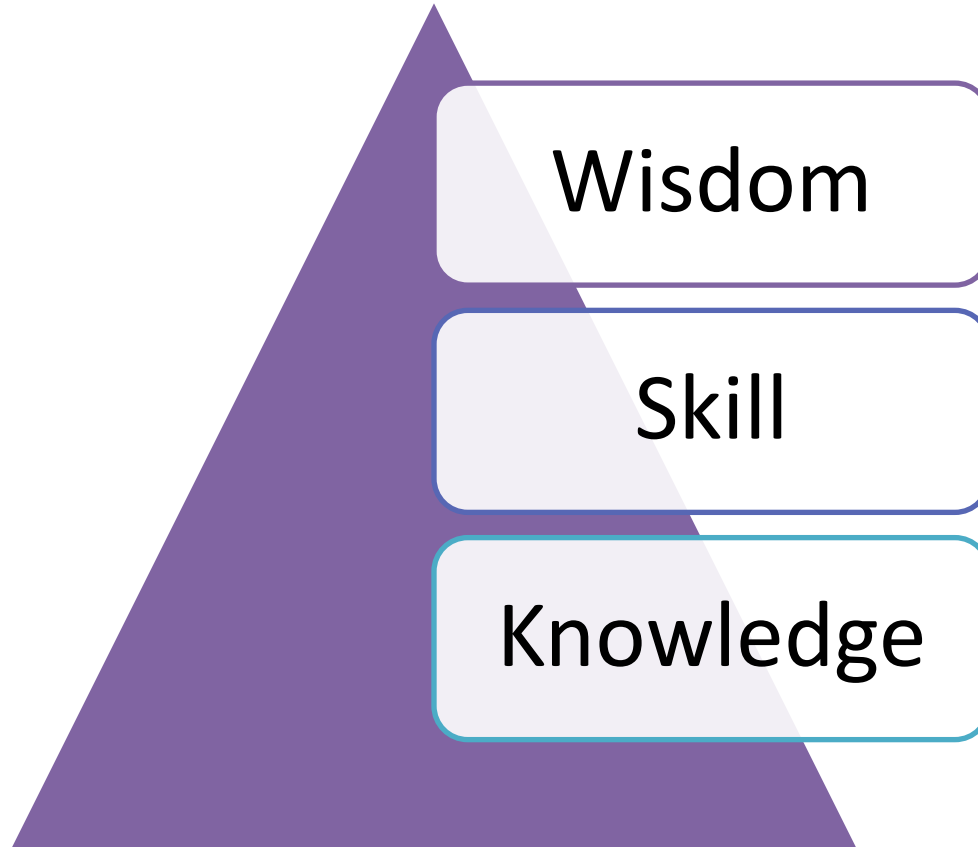


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Philosophy Starts where Physics Ends





1. KUAS or CHAOS ?

- **K**nowledge – terms, definitions, symbols
- **U**nderstanding – concept, method
- **A**pplication – solving problems and issues
- **S**kill – by practice





2. KUDOS

- KUDOS – Problem Solving Technique
- Known
- Unknown
- Definition
- Output
- Substantiation

Q.No.

Sub: Maths

Topic: App. of Trigonometry Class: X

Name: S. Pavani

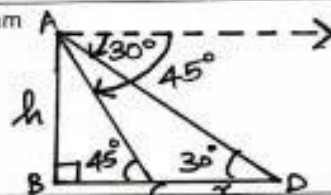
Question From the top of a lighthouse 75m high, the angles of depression of two ships are observed to be 30° and 45° respectively. If one ship is directly behind the other on the same side of the lighthouse then find the dis. between the two ships.

1) Given

$$AB = h = 75\text{m}$$

$$CD = x = \text{Dis between two ships}$$

2) Reference data / diagram



3) To find out

$$x = ? \text{ (Dis between two ships)}$$

4) Formulae

$$\tan 30^\circ = \frac{1}{\sqrt{3}} = \frac{\text{OPP}}{\text{Adj}}$$

$$\tan 45^\circ = 1 = \frac{\text{OPP}}{\text{Adj}}$$

5) Reformulation

$$\frac{h}{BC+x} = \frac{1}{\sqrt{3}} \rightarrow \boxed{h = BC}$$

$$\boxed{h\sqrt{3} = BC + x}$$

6) Substitution

$$\boxed{75 = BC}$$

$$75\sqrt{3} = 75 + x$$

7) Working

$$\boxed{BC = 75\text{m}}$$

$$75\sqrt{3} = 75 + x$$

$$x = 75\sqrt{3} - 75$$

$$x = 75(\sqrt{3} - 1)$$

Rough work

8) Answer

Dis. between two ships $75(\sqrt{3} - 1)\text{m}$

Problem:- A cylindrical bucket, 32 cm high and with radius of 18 cm is filled with sand. This bucket is emptied on the ground & a conical heap is formed with height 24 cm. Find the radius and slant height of cone?

Given - cylinder

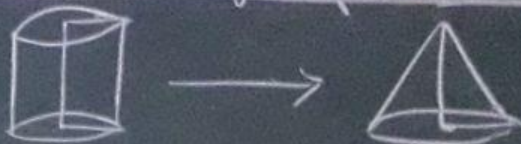
$$r_1 = 18 \text{ cm}$$

$$h_1 = 32 \text{ cm}$$

Cone

$$h_2 = 24 \text{ cm}$$

Ref:-



3) To find:- $r_2 = ?$ $l = ?$

radius of cone = ?
slant height = ?

4) Formulae:- Vol. of cylinder = $\pi r^2 h$ cu. units

$$\text{Vol. of cone} = \frac{1}{3} \pi r^2 h \text{ cu. units.}$$

$$l = \sqrt{r^2 + h^2}$$

5) Reformulations:- $\pi r_1^2 h_1 = \frac{1}{3} \pi r_2^2 h_2$

$$\frac{r_1^2 h_1 \times 3}{h_2} = r_2^2$$

6) Substitution:-

$$\frac{18 \times 18 \times 32 \times 3}{24} = r_2^2$$

7) Working:- $\frac{18 \times 18 \times 32 \times 3}{24} = r_2^2$

$$r_2^2 = 1296 \Rightarrow r_2 = \sqrt{1296}$$

$$r_2 = 36 \text{ cm}$$

$$l = \sqrt{(36)^2 + (24)^2}$$

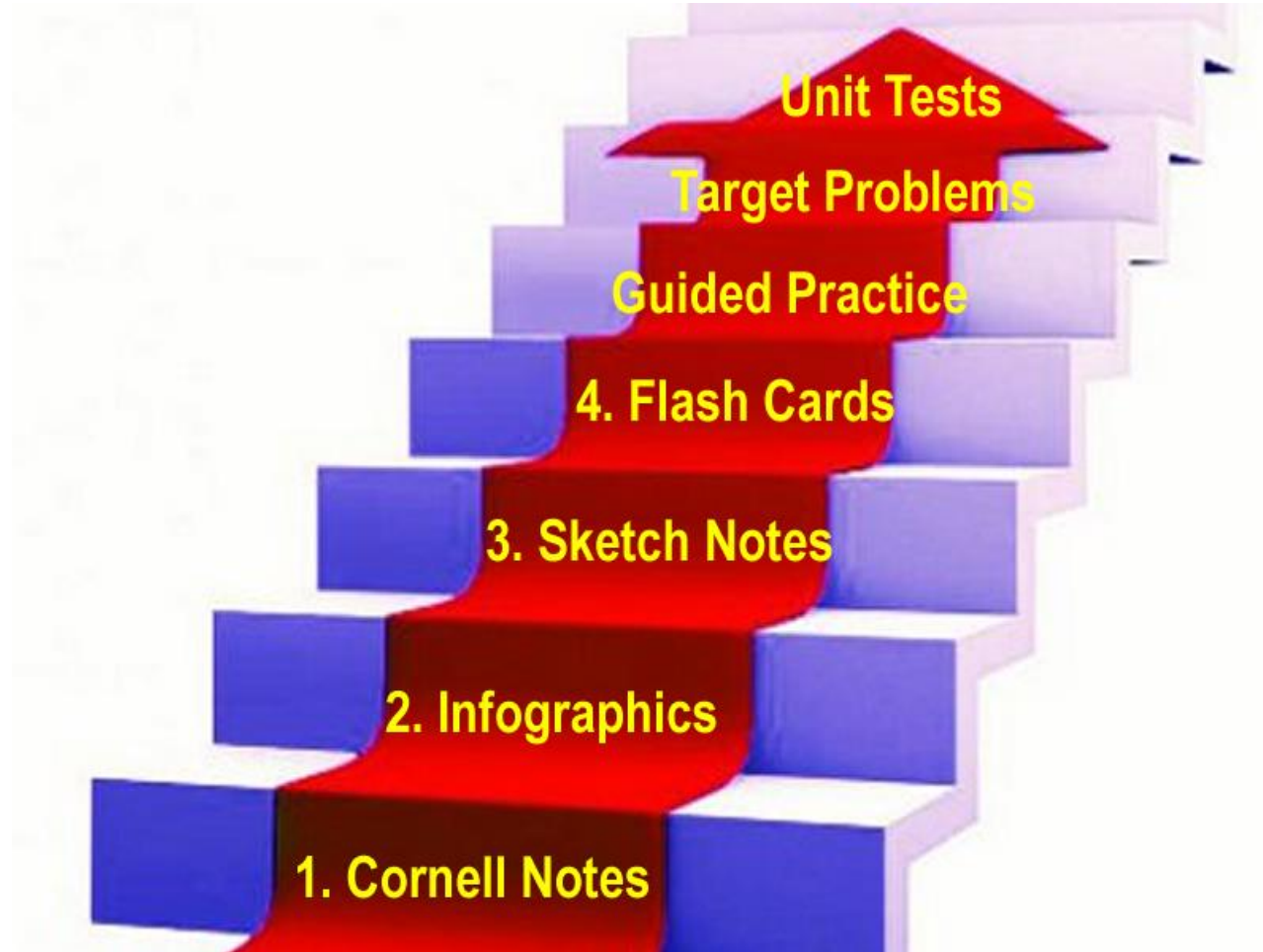
$$l = \sqrt{1872}$$

$$l = 12\sqrt{3} \text{ cm}$$

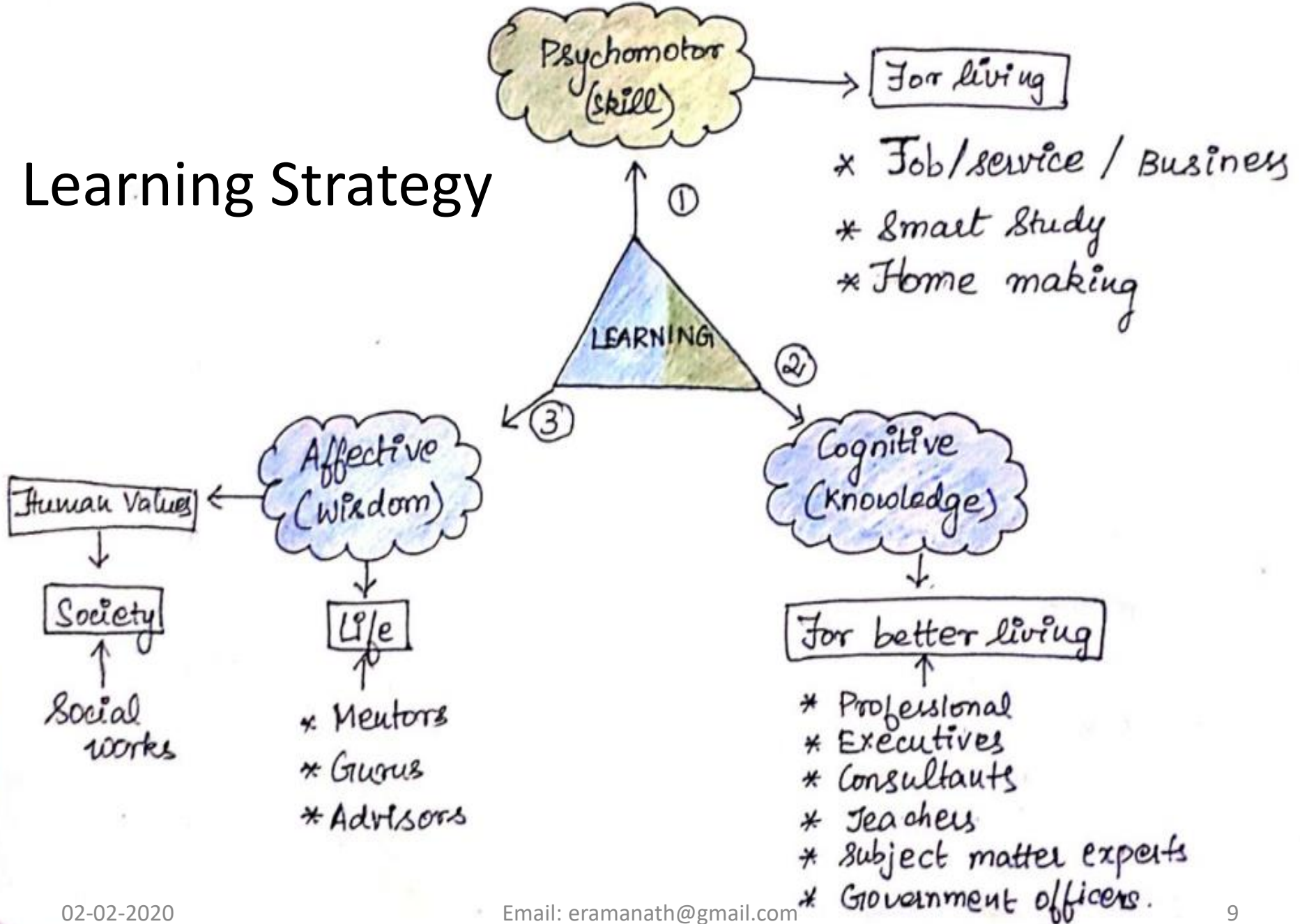
The radius and slant height of cone is 36 cm and $12\sqrt{3}$ cm.



3. Learning Strategy



Learning Strategy



CORNELL METHOD NOTETAKING

IS SO EFFECTIVE OMG WHY WEREN'T WE TAUGHT THIS IN STUDY SKILLS
by lavidapoliglota.tumblr.com

~2 inches

2. THIS IS THE RECALL COLUMN

As soon as possible after lecture, review the notes column, take main ideas, key concepts, and important facts and write them in the recall column

1. THIS IS THE NOTES COLUMN

During lectures, note main ideas and concepts. Don't mindlessly copy - rephrase what you can to retain information

Skip one line between ideas,

several between topics

Avoid writing in complete sentences, use symbols and abbreviations, e.g.:

Pelayo, a descendant of the Visigoth aristocracy, founded the Kingdom of Asturias in 718.

Pelayo (dscdt/Visigoth arist.) fd. Asturias 718

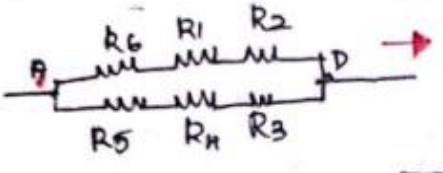
3. THIS IS THE SUMMARY SECTION

GUESS WHY IT'S CALLED THAT

Summarise main points here at the end

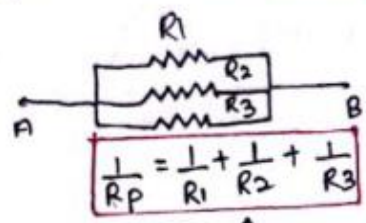
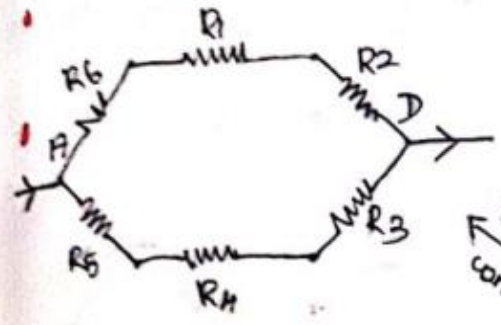
Info taken from
<http://www.heritagehawks.org/faculty/dbrown/HistoryClass/TheCornellMethod.htm>

PART - 1

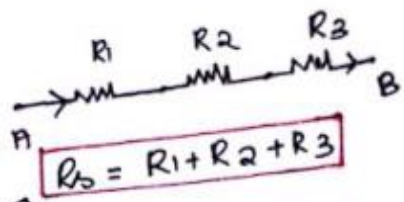


$$R_1 + R_2 + R_6 = R_6 \quad \frac{1}{R_P} = \frac{1}{R_6} + \frac{1}{R_6'}$$

$$R_5 + R_4 + R_3 = R_6'$$



$$\frac{1}{R_P} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

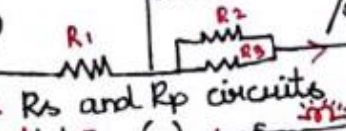


$$R_S = R_1 + R_2 + R_3$$

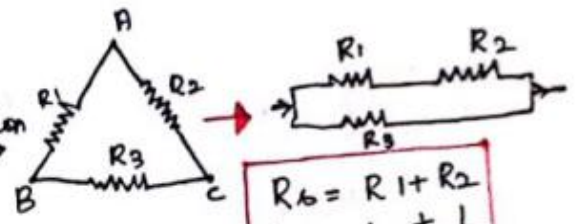
Hexagon combination (7)

① Basic parallel circuit

② Basic series circuit



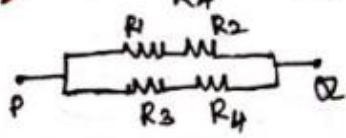
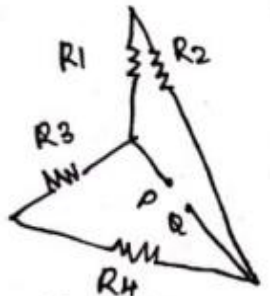
③ Star combination



$$R_6 = R_1 + R_2$$

$$\frac{1}{R_P} = \frac{1}{R_6} + \frac{1}{R_3}$$

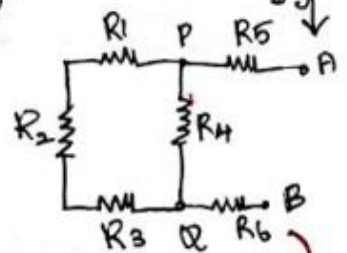
④ Rocket combination



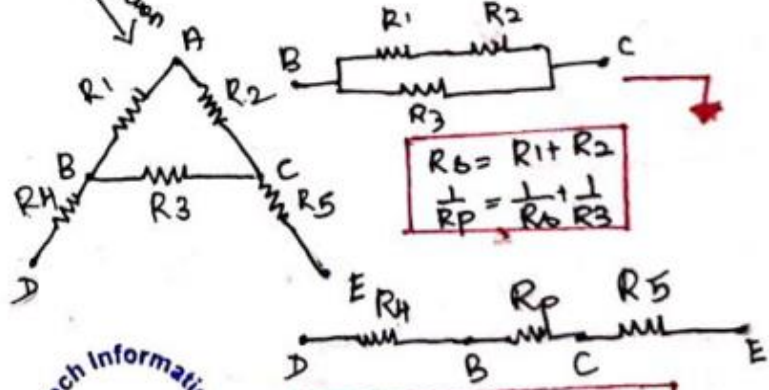
$$R_6 = R_1 + R_2$$

$$R_6' = R_3 + R_4$$

$$\frac{1}{R_P} = \frac{1}{R_6} + \frac{1}{R_6'}$$

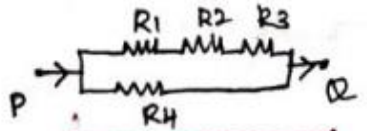


⑤ A combination



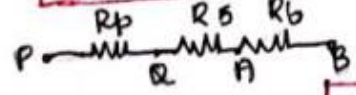
$$R_6 = R_1 + R_2$$

$$\frac{1}{R_P} = \frac{1}{R_6} + \frac{1}{R_3}$$



$$R_6 = R_1 + R_2 + R_3$$

$$\frac{1}{R_P} = \frac{1}{R_6} + \frac{1}{R_4}$$



$$R = R_P + R_5 + R_6$$

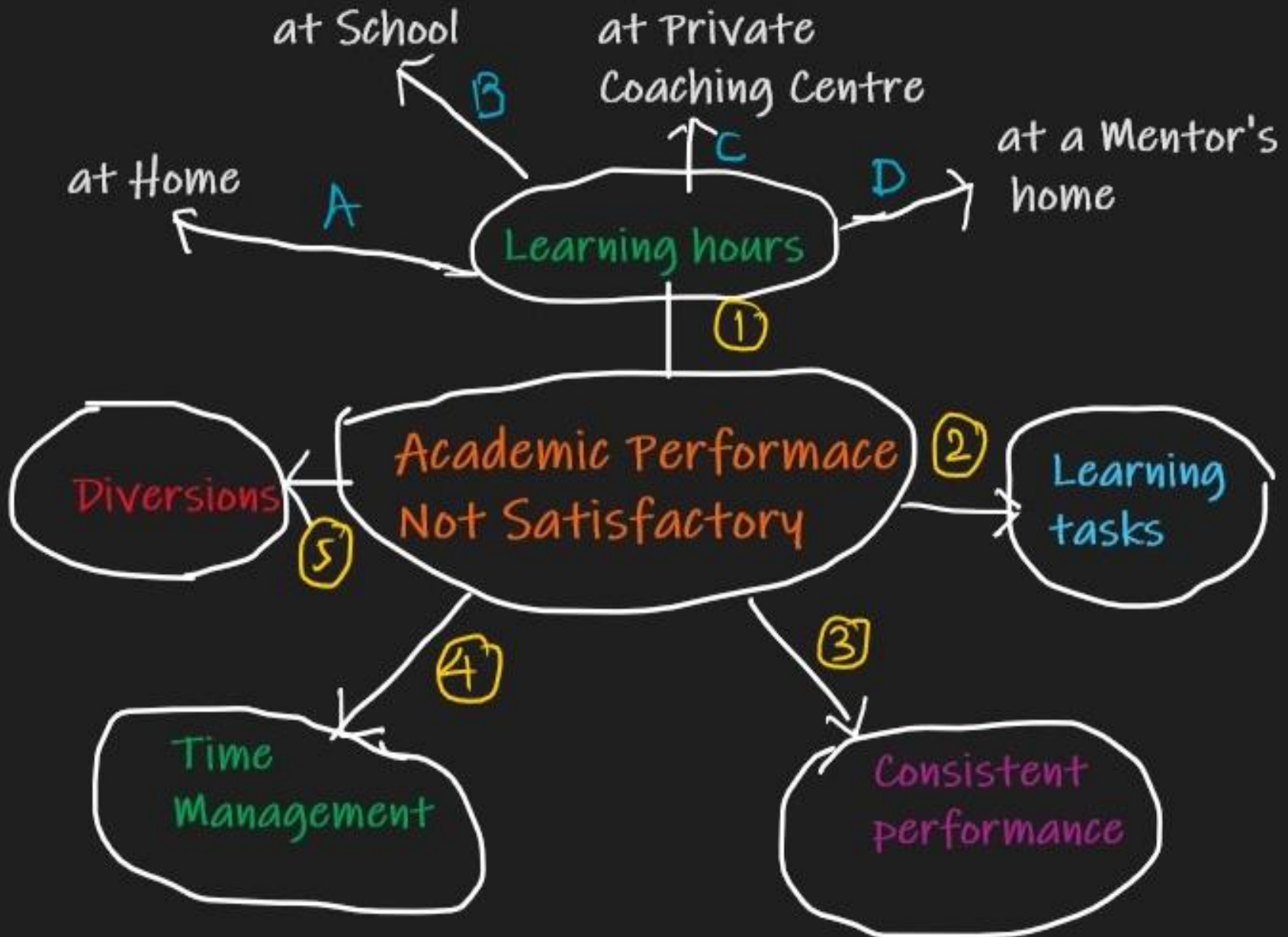
Saitech Informatics
Signed by

www.saitechinfo.net

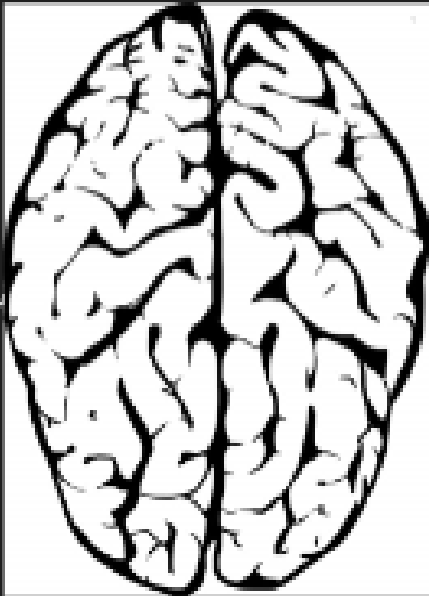
$$R = R_P$$

$$R + R_4 + R_5 = R_S (DE)$$

ACADEMIC TRACKING



Memory Failures



Retrieval

3

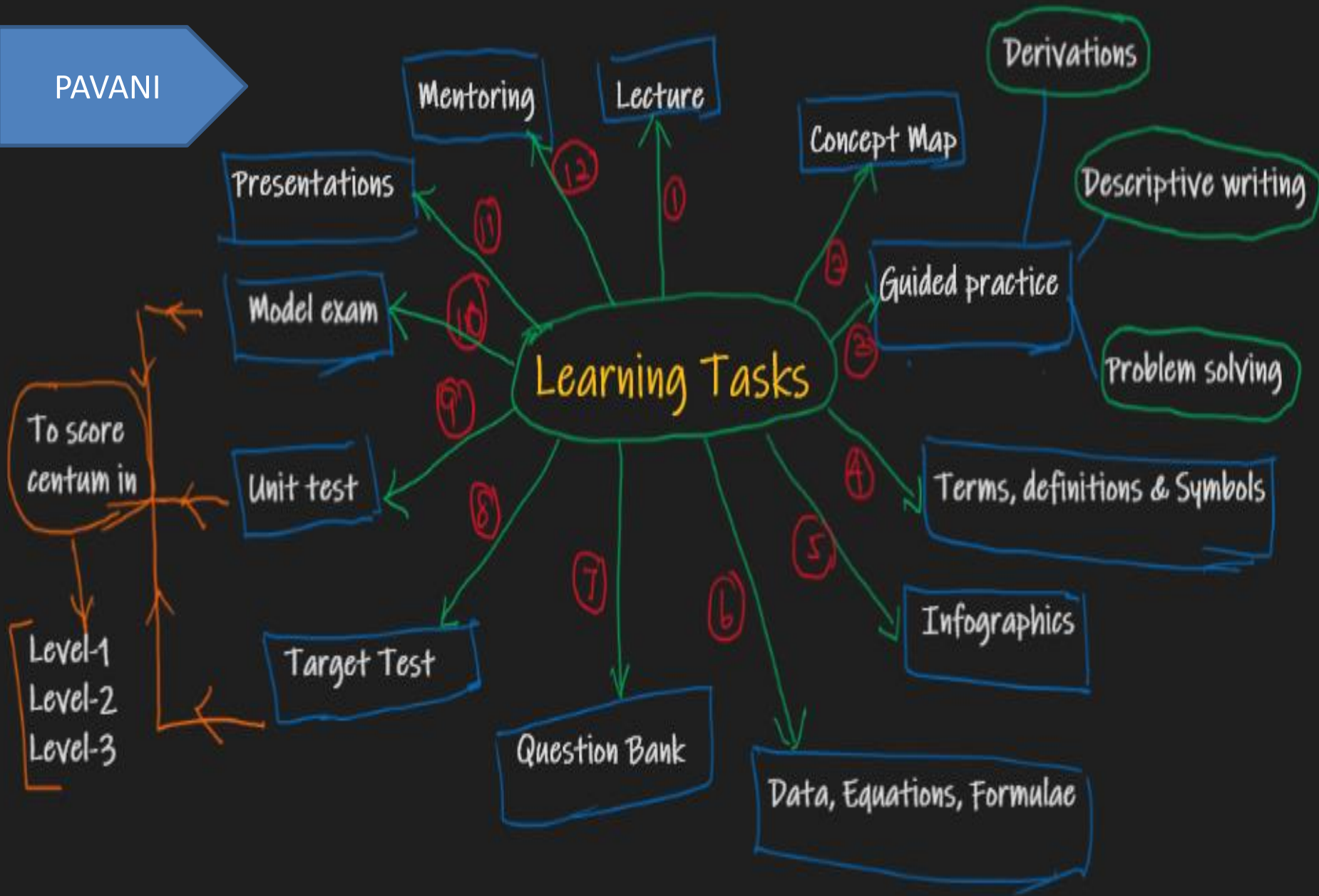
1

Encoding

2

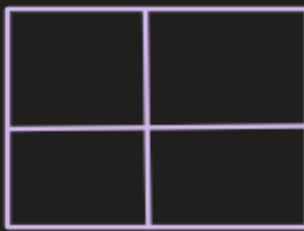
Storage

PAVANI



All learning tasks should be supported by documents.

1



No skill

2



Basic knowledge

3



Perform task with some help

4



Perform task independently

5



Perform task independently
and also guide others

SAITECH CENTUM SCORING MARKSHEET

NAME: G. Harini STD: X SUBJECT: Naths MODEL: 01 DATE: 27/01/2020

SECTION	MAX. MARKS	LEVEL-1	LEVEL-2	LEVEL-3	TOTAL MARKS	CENTUM ACHIEVED
A	20	20	-	-	20	100%
B	12	12	-	-	12	
C	24	24	-	-	24	
D	24	16	8	-	24	
TOTAL MARKS	80	72	8	-	80	
TOTAL TIME (MINUTES)	180	149	10	-	159	



SIGNATURE OF STUDENT	SIGNATURE OF PARENT	SIGNATURE OF FACULTY
<u>G. Harini</u>		<u>E. Ramanaiah</u>

30/01/2020



4. Revision Time

14 Days Revision

- Primary notes – 3 times
- Secondary notes – 6 times
- 10 min. break for every 1.5 hours
- 12 hours on holidays
- 4 hours on working days
- No social media
- Avoid friends

1 or 2 Days Revision

- Primary notes – 1 time
- Sec. notes – 2 times
- Don't study anything new
- Don't exceed 12 hours study
- No mid-night study
- Min. 6 - 8 hours sleep



**Say
NO
to**

WhatsApp | **Telegram**

Till you finish your exam



5. On the Eve of Exam

- No late night revision
- Sleep well
- Get up by 5:00 a.m.
- Recap only memory points from secondary notes
- Fast scan sketch notes
- Recheck Exam Items
- Refresh
- Get the Blessings from elders
- Get ready
- Start Early; drive slowly; reach safely



6. In the Exam Hall

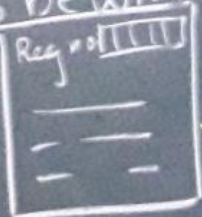
1. Dress code
2. Manners
3. Items Checklist
4. Time management
5. Question paper
6. Answer sheet

⇒ Question code

⇒ (X) Marking

⇒ 3 sets

⇒ only Reg no. to be written



→ Portrait

QP

TIME

Reporting time: 9:45 - 9:55 AM

OMR Data - 10:00 AM - 10:15 AM

Filling

Read Q.P. - 10:15 AM - 10:30 AM

To tear the seal of AS

10:30 AM

Exam - 10:30 AM - 1:30 PM

⇒ sealed

⇒ (X) tear before time Allotted.

⇒ NO rough work on margin

⇒ (X) Jumbling of SECTIONS 2

⇒ Additional sheets Rough work should be attached - Pg no. sheet

⇒ Additional sheet - Pg no. sheet

AS

6

EXAM HALL

4

3

1

2

DRESS

⇒ No shoes

⇒ No tuck in of shirt

⇒ School uniform

MANNERS

⇒ (X) Talking

⇒ (X) Gesture

⇒ (X) Malpractice

ITEMS

EXAM KIT



- 1) TRANSPARENT POUCH (X)
- 2) HALL TICKET
- 3) BLUE GEL / INK PENS
- 4) DARK BLACK PENCILS
- 5) ERASER
- 6) SHARPNER
- 7) COMPASS, PROTRACTER, SCALE

- 1) Geometry box
- 2) Black pen
- 3) electronic gadgets
- 4) Other colour pens



7. After the Exam

- Treat the exam attempt as Level-1
- Reattempt Level-2 with the unknown questions at home.
- Review and continue Level-3 to get 100%
- Centum Score Cyclic Exam with 3 Levels
- Bridge course to fill up the gap
- Join Summer Course
- Involve Social Activities and Services
- Read Good books
- Get ready for next academic year



8. Counselling at Skill School

- Every Sunday between 5:30 p.m. and 7:30 pm
- Academic skill builder classes from STD IX to STD XII
- Maths – pre-algebra, logarithms, calculus
- Physics – units and dimensions, problems in physics
- Chemistry – IUPAC, balancing, problems
- Biology – terminology, problems
- CSC – Java and Python primer, typing
- Basic accounts and GST
- Communication skill



Education for Life and Living !