(1)

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- Batch ISR-055

O NO: 4 Very good for math portion Work on theory portion (a) Definitions:-Insufficient length Add headings Draw diagrams i) Pesticides:-Pesticides are chemical or biological compounds that prevents or kill pests. The Food and Agriculture Organization (FAC) defined pesticides as intended for preventing, destroying or killing any pest. There are many types of pesticides according to the type of pest there kill. e.g.: L'insecticides are used to kill unsects
by d-lerbicides are used to feill
texts, weed and plants. 5 Rodenticiones are used to kill mice and rats. ii) Herbicides: Herbicides lare those Chemicals that are used to will weeds and unwanted plants. Herbicioles are

classified as selective when they are used to kill exects without harming

the crop and as non-selective when
the purpose is to will all
veretation rejetation.

Typical examples of herbicides are

Glyphosate, Atragine, Bromacil, Diquat, and used to kill insect or matigate them. Insecticides are generally used in agriculture to control pests that

have harmful for crops, but they have other uses as well such as eliminating insects that spread cliseases. Insecticides can be classified

in many ways, like how they work,

their mode of action or what they are made of.

insecticiole et l'insecticioles, contaet

Examples of Insecticides are organophosphates pyrethouids, and Carbonates

iv) Ceramics:
Ceramic include a wide

range of inorignic, non-metalic materials

menufactured through high temprature.

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Farth saw materials used in its
manufacture Contain preclaminantly silican
with its oxides and complex compounds
known as silicates clay, Feldspax,
Quartz sand and from are saw material
for ceramics pottery is an important
cotegory of ceramics it includes
earthware, stoneware and procedain. Glass
is another ceramic material consisting of
a mixture of silican sody, and lime.
Applications of ceramics are: integrated
circuits, Ruby used for Laser materials,
ceramics engine, in space shuttle ser
cermics are used to protect them from
bigh temprature

Jef: Green house effect:

Def: Green house effect

is the process by which radians from

the sun are absorbed by the

Breen house gases and not reflected

back into space.

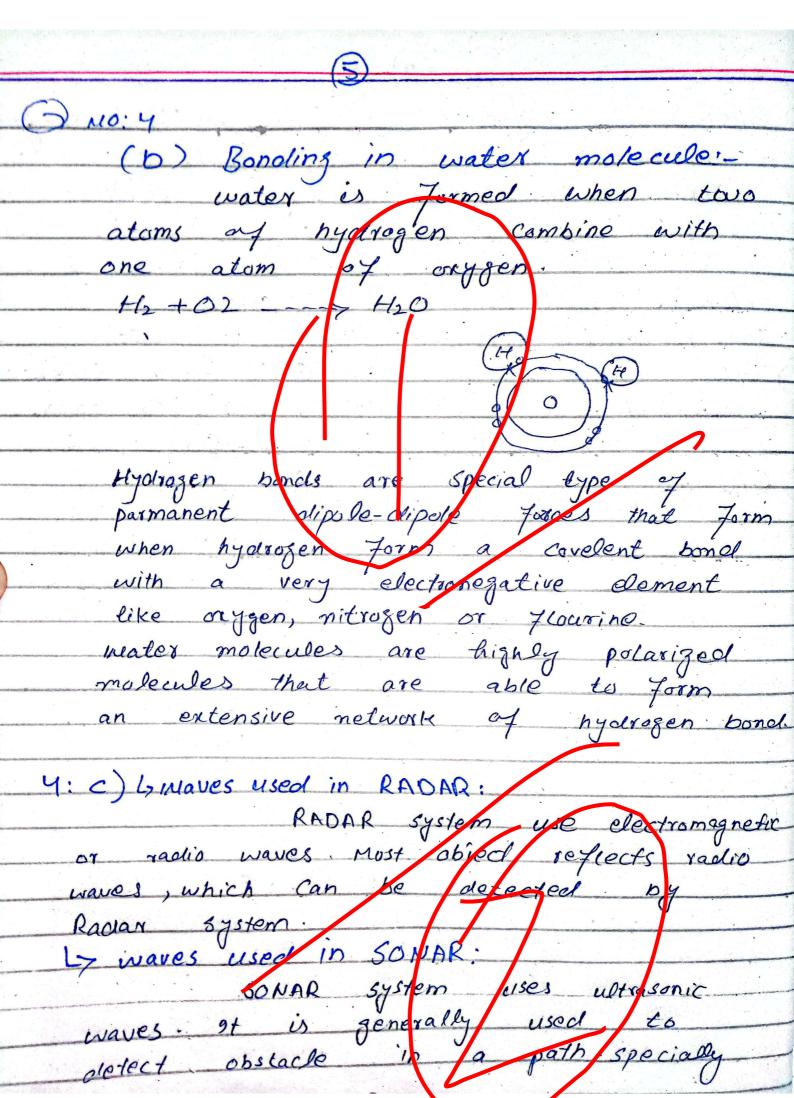
During the day time the sun

heats up the earth's atmosphere.

At night, when the earth cools down the heat is radiated back into

the almosphere During This process,

the heat is absorbed by the gasses · like Carbon dioxid, chtorf chloroflours carbons in the earth atmosphere. Due to increased number level of greenhouse gassed the parth temprature has increased considerably. The major contributors to the green-house jusses are factories automobiles. Global warming ) Depliontion or smag, and air pollection are the major offects of Greenhouse effect



6

Ly Li waves used by LiDAR:

Liph waves used by LiDAR:

Liph System uses visible light for detection and Ranging like ultraviolet or infrared. Ly waves used by Mobile phones:-Mobile phones uses Radio waves. Radio waves have the longest wavelength in the electromagnetic Spectrum. by waves used by Thermistors:-Thermistor are Sensors that resists temperature. They generally detects heat and cool temperature. 4-d) advantages of AI: Ly one of the biggest advantage of

AI is its availability 24/7
Ly Ackurage and reduced rate of error.

Ly Helping in regeletive job can not perform like Deep sea by Faster Decisions.

7

Disadvantages of AI: 5 High cost due to latest requirements. Is making human Lagy is unemployment ls no Expetions by tacking out of Box Minking.

olevices. go ato. in foration Captrol unit input unt output conit Keyboard, mouse Maritor, printers Memory unit

Figure . 9

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Through input unit data is entered into CPU (computer) using input devices like mouse, keyboard for processing.

After the data is processed the required information may either be stored in secondary storag (Hand disk, usb) or provided through output devices like monitor, Printers etc as output.

as shown in "Figure 1".

b) Optics:

consists of small liny packets of energy delled photons these photons have poth the properties of wave as yell as particles. Hence this type of property is called wave-particle duality.

Sprics is the branch of physics which is concerned with Light and lits its behavioural pattern and properties.

optical fiber functioning/work:

a fiber-optic eable travels through the core on by constantly bouncing from the

1.7.0

cladding, a principal called total Internal reflection . Because the chadding does not absorb any light from the Core, the Light wave can travel growte c) Methods of solid waste management: Solid waste management is a set of techniques that are used to dispose of or necycle the solich waste of inclustries or homes so that to minimize the risk of adverse effects. These methods are: Land fill methods ii) Sanitary Canofills iii) Treatment of industrial waste iv) Incineration of industrial and Hazardous waste. v) Recycling of waste vi) pyrolysis of solid waste. Dy Distinguish GPS and GIS: is GPS spands for GIS stand 706
global positioning Geographic Information System.

ii) GIS involves analyis ii) GPS is a navigation and mapping of Geographic data. system that provides that provides location and quidance iii) G15/ uses maps iii) GPS is used to and coordinates to determine location, time, study the world. speed, elevation, etc. iv) GIS is a science (v) GPS is measuring that uses GPS office equipment For analysis v) GIS closes not u) GPS relies on Satellite rely on fatellite signals to pinpoint location. signal but collect data from different sources i.e Gps, aerial Photos.

## SECTION: 2

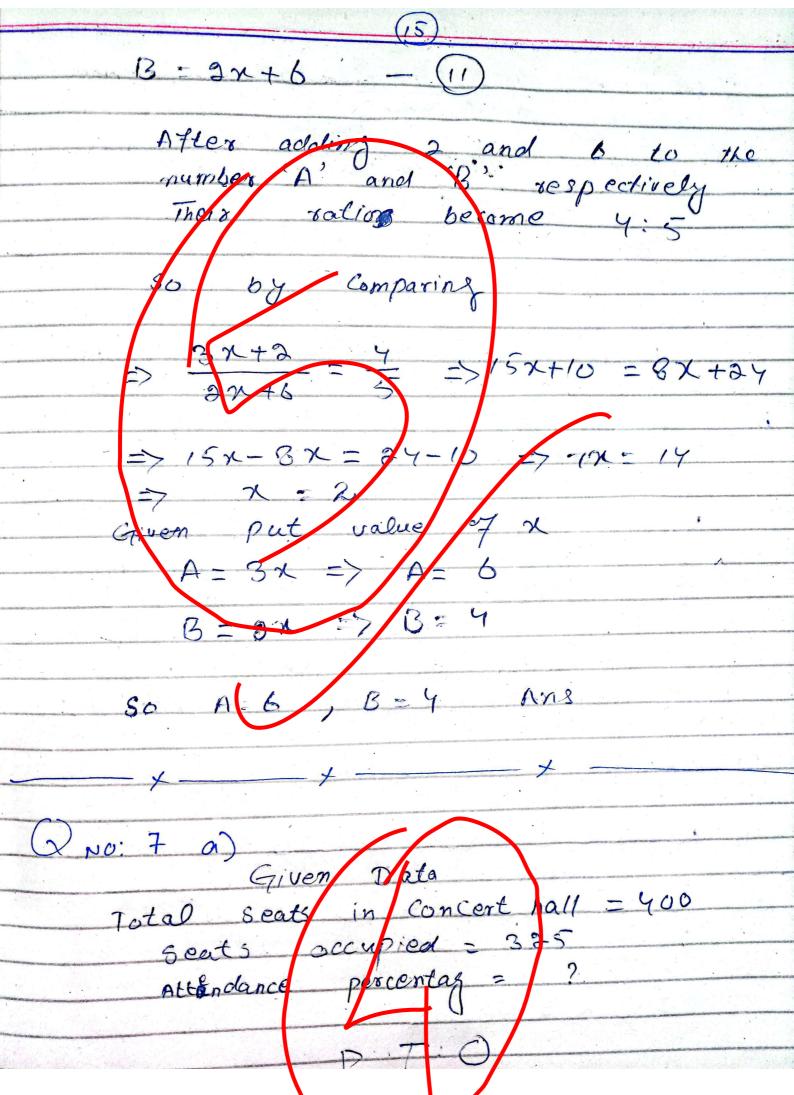
Given That: 300 Ft Fence longer piere Let Given that B 300 00 dividing both sides by 6 Hence Ang

b) let length = L width = w, perimeter = p Given that = 2W + 3-i), perimeter = 20 Inchs we know that perimeter ractangle = a (L+ w) so by putting values P = 2 (L+W) => P=2 (2W+3+W) => P = & (3w+3) 20 = 6w+6 14 = 6 w by subtracting & From
both sides

Dividing both sides by 6 Find value of 1, put walne of w is execution (i) L 2w+3 => L= 2(7)+3  $\Rightarrow L = \frac{14}{3} + 3 \Rightarrow L = \frac{14+9}{3} = \frac{23}{3}$ dimension are: Length - 23 inches 7
width - 7 3 inches } Ans

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Q:b:c) Given: Total % of win matches = 60% matches lost = 24 Total matches = ? Solve: Here Tist we have to find % lost matches So 100 50 40 100% - 50% = 40% -> 1/0 7 lost metch Let the total matches = X 46% of x = 24 2 x = 24 5 x = 6/x 5 => x=60 Total matches = 60 Ans: Q:6:01) Let first number : A and number = B Given ration 3:2 A = 3x, B = 3x=> 2 is eaded to first number A = 32+2 -0 => 6 is added to the second number



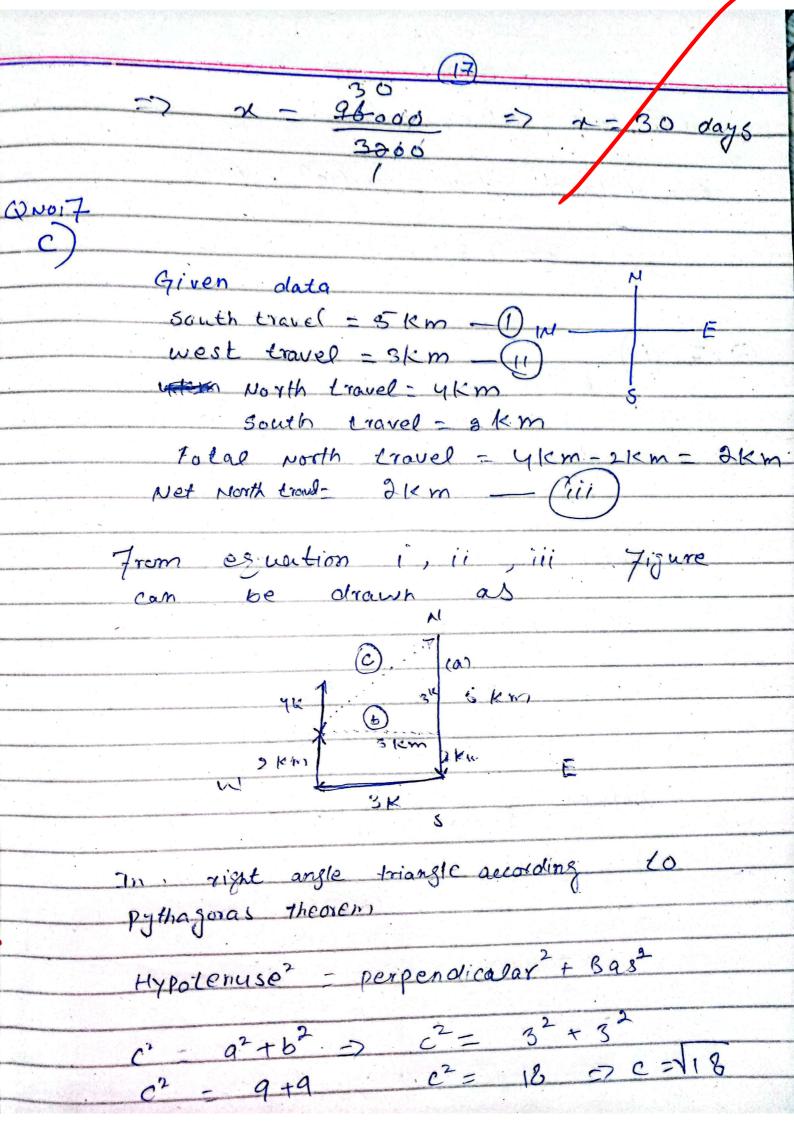
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Total Present x 100 325 x 100 = 325 % 325 x 100 = 325 % 81-25% Percentage of attendance = 81-25% Ans Q:7 Let the give Data be avange persons sizar no of days

30 401 to 1 unknown to

80 320 27 know Days and sugar are in direct proportion Days and persons are in inverse proportion so compound proption becomes => 10: x = 80 x/40/: 30 x320 10: x= 3200: 9600

3200 N = 90000 10



so distance from Initial point ~ 4.54 Radius of cylinder = 10cm night of 1 = volume of cylinder = we know Tha linder 50 volume = 22/10/ 36 3-14 × 100/× 36 314 × 3/5/ = 11304 volume of cylinder = 11304 cm