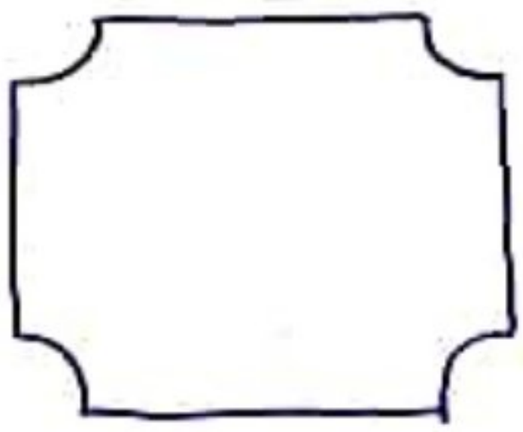
14) A square has its area 81 cm^2 and the radius of the ~~circle~~ circle formed by arcs is 2cm, then what is the value of ~~perimetre~~ perimetre. of the figure.

a) $36 - 4\pi$

b) $36 - 2\pi$

c) $22 - 4\pi$

d) none



I don't remember exact values. But I think the answer is [a].

15) Which of the following is correctly spelled?

a) percieve

b) perceive

c) parcive

d) perceeve

16) The area under the curve for $\int x^2 + 1$ between $x = 4$ and $x = 1$ is

17) A body of mass 2kg has velocity 6 ~~km/h~~ m/s. ~~It is~~ After 8 seconds it is 10 ~~km/h~~ m/s. Then power is ?

18)

3	9	27
7	49	343
11	111	?

19) ~~Directions wadai~~

20) Direchions walai 2 questions thay.

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(4)



If body moves from A to B change in speed or K.E = ?

(1) Angle in semi circle?

(2) $\angle A = 35^\circ$ $\angle B = 62^\circ$ $a = 7$ $a = ?$

(3) $\log_4$ (some value) & $\log 5$

then $\log 45 = ?$

(5) If A is Arithmetic, G is geometric & H is Harmonic then

$A > G > H$ $A < G < H$

$A \geq G > H$ $A \leq G \leq H$

(6) $\begin{bmatrix} 2 & 3 \\ 4 & 5 \\ 6 & 7 \end{bmatrix}$, order of transpose?

(7) $3x + 4y + 3 = 0$ $3x + 6y + k = 0$

Solution show non trivial sol then $k = ?$

(8) $a^x = b = ?$

(9) If A & B are overlapping then

(a) $n(A) + n(B) - n(A \cap B)$ (b) $n(A) \cdot n(B)$

$n(A) - n(B)$ none

(10) $F(A) + E(B) = \phi$ then

A & B are

(a) Mutually exclusive (b) disjoint

(c) Overlapping (d) none

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8) Find quarks & lepton in 3 electron, 3 proton & 4 proton

9) Find Binding energy

10) Find Spring constand

11) Find heat capacity

⇒ Chemistry

1) Components of Acid Rain

2) Ester's formula

3) Equation given the , What is nucleofile

4) pH less than 7 , following elemants

5) if m = 0·1 g find moles of Sodium

6) if ΔH is negative then ....

7) Find Activation energy

8) Si melts the bond optim ⇒ Covalent (polar)
Covalent (nonpolar)
Ionic ...

9) Strong carbonylic acid ?

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C: Q8

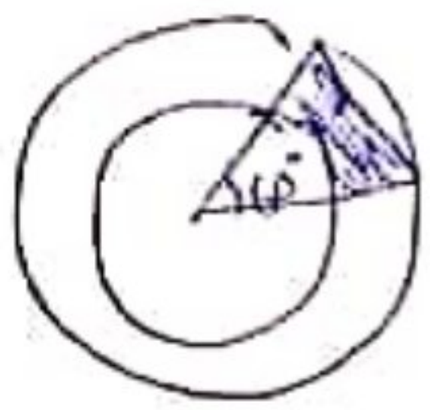


If ∠OAB = 115°
find angle ∠BOC = ?

a) 50 (Ans) b) 30° c) 60° d) 15°

Q9





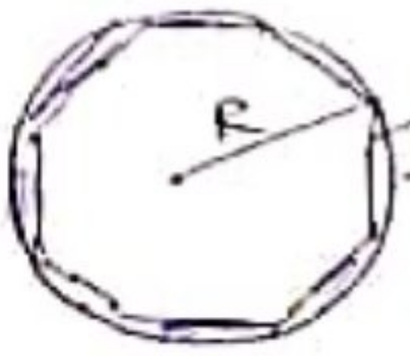
Where R & r
where given
as R = radius of bigger circle
r = radius of smaller circle

a) $\frac{1}{2}\left(\frac{\sqrt{3}R^2}{2} - r^2\frac{\pi}{3}\right)$ (Ans) b) $\frac{\sqrt{3}R^2}{2} + \frac{1}{2}$ c) dont realtor d) dont realtor

Q10 $\alpha = 60°$, $\beta = 60°$ and in a triangle AB = 2m (i dont realtor exact value)
what is AD = ?

a) 2 (Ans) c) 3 (equilateral Δ) d) 4 e) 5

Q11



Area of shaded region was asked

Q12 ellipse equation was asked $e = \frac{2}{3}$, x and directrix was given (x = some value)

Q13 $x^2 + 2y^2 + 3x + 4y - 20 = 0$ (curve represents)

a) ellipse b) Hyperbola c) circle d) lines

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21) $(1-i)^4 = 1$

22) $\left(\frac{x+1}{x-1}\right)$ derivative wrt variable x is

a) $\frac{-2(x-1)^2}{}$ (Ans) b) $-2(x+1)^2$ c) dont remember

24) Pakistan can be arranged in _____ ways if 'p' is fixed at start

dont remember options

25) $A = \{0, 1, 2, 3, 4, \ldots 11\}$ $B = \{0, 1, 2 \ldots 10\}$ $A - B = ?$

a) 11 b) $\{11\}$ (Ans) c) 0 d) ? 12

26) if $A \subseteq B \subseteq C$ and $a \in AB$ then

a) $a \in A$ b) $a \in BC$ (Ans) c) $a \notin B$ d) none

27) If a card is picked from a deck of '52' cards then what is the probability that card is either a spade or queen?

a) 4/13 (Ans) b) 8/15 c) 5/15 d) 4/15

28) if there are '30' digits then find 'n' of total digits are picked at once permutation if 2

a) $n = 6$ (Ans) b) $n = 5$ c) $n = 4$ d) $n = 1$

29) $2x + 2y = 0$ $x + 2y = 0$

a) trivial when $x=0$ $y=0$ (Ans)
b) non trivial
c) Two solutions
d) dont remember

30) $\frac{2x}{x^2+2x+1}$ = partial fractions =?

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3) $2\sin\frac{\theta}{2}$

4) $\sin^2\theta - \cos^2\theta$

NET = 3

1) If $a < b$, then $\frac{\frac{1}{a} - \frac{1}{b}}{\frac{1}{a} + \frac{1}{b}}$ = ? a) >0 b) <0 c) $=0$

2) If $a > b$, then $\frac{\frac{1}{a} - \frac{1}{b}}{\frac{1}{a} + \frac{1}{b}}$ = ? a) >0, b) <0 c) $=0$

3) If A is symmetric, then $A \cdot A^t$ = ?

4) factors of $x^2 - 2x + 1$ = ?

5) factors of $x^2 + 5x + 6$ = ?

6) Empirical formula of glucose?

7) formula for ellipse, hyperbola = ?

8) If diagonal of a square is 20, then its side = ?

9) 

Area of the shaded region = ?

10) Definition of Alkene?

11) $1^2 + 3^2 + 5^2 + \cdots + n^2$ sum formula = ?

12) One question was to find harmonic mean b/w two No.

13) If 1, 2, 3, 4, 5, 6, 7, 8 stands for PESHAWAR, then SHAWAR = ?
a) 2, 3, 4, 5, 6, 7 b) 3, 4, 5, 6, 7, 8 c) ---

14)
17	10	15
18	16	13
16	25	?

15) Meaning of expedient?

16)

$2r \quad 4r$

$8r^2 - 2\pi r^2$

$r^2(8 - 2\pi)$

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NET - II

08 Aug (Morning)

① Escape Velocity of jupiter ? 61

② Direction of Qiblah is measured by

1- plane geometry
2- Astronomical geometry
③ Spherical geometry
4 ...

③ Find the value of function $\sin x = \cos x$ from $(0 - 360^\circ)$ in radians

⇒ options yaad nhi!

④ Find the value of function $\tan x = \cot x$ frm $(0 - 360^\circ)$ in radians

⑤ $f'(x)$ of $\left(\frac{1}{x}\right)^x$.

⑥ $\cos x$ is +ve in which quadrant.

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PIEAS ENTRY TEST 2020

⇒ Mathematics

1) 11^{th} order derivate of $e^{-\infty}$

2) If $\log_{\frac{1}{3}} 4 = \ldots\ldots$ & $\log 5 = \ldots\ldots$ the $\log^{45}$ = find it?

3) $A = \begin{bmatrix} \cdot & \cdot \\ \cdot & \cdot \end{bmatrix}$, $B = \begin{bmatrix} & \\ & \end{bmatrix}$, $C = \begin{bmatrix} & \\ & \end{bmatrix}$ then which one is true

(a) $(AB)^{-1} = A^{-1}B^{-1}$ (b) $AB = BA$

(c) $A(BC) = (AB)C$ (d) None

4) Δ if $\angle A = 35°$, $\angle B = 62°$ And $c = 2$ the find a = ?

5) if a is on y-axis the $(0, b)$ is

(a) X- intercept (b) Y-intercept

(c) Slope (d) None

6) $A = \begin{bmatrix} 2 & 3 \\ -1 & 4 \\ 5 & 6 \end{bmatrix}$ the order of $(A)^t$

7) Reeuring decimals is also called

(a) Rational (b) Irrational

(c) ..... b(d) .....

8) $\sqrt[3]{x}$ the root

9) The sum of cube root of unity is $x - 4$ the x = ?

10) if E_1 & E_2 are two events then and $E_1 \cap E_2 = \phi$

options → Overlopping Disjoint...

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⇒ Fapptitude

① What explains my sleeping routine best

(a) I sleep more than usual

(b) I can't sleep

(c) I sleep a hours less or more

(d) Sleeping routine is same as before

②

I ~~feel~~ handle situation calmly & fullabl

(a) Underdevelaped (b) Creed

(c) Need improvement (d) Adequate

③ Which statment best explain my mood

(a) I dont feel intrested

(b) I feel more instrested than usual

(c) I —

(d) —

④ Which beil explains worthlessness?

(a) I feel utterly worthless

(b) I don't feel worthless

(c) I feel like i can't do anything

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Date:

(19) Unit of ~~pressure~~ electric field strength is

a. Pascal $m^2 C^{-1}$ b. $Pa\ m^{-1} C^{-1}$ c. $Pa\ m^{-1} C^{2}$

(19) A coherent source has

a. same ~~was~~ amplitude b. same frequency

c. same phase d. same wavelength

h magnetic field

(20) If the coil is rotating ~~for~~ and flux linking the coil is changed. Then the emf induced is

a. Motional emf b. Transistor emf

c. Both motional and transistor emf

(21) If a body is moving upwards, its acceleration is

a. increasing b. decreasing c. remain constant

(22) If a conductor is placed in magnetic field such that its direction direction of B is towards

(22) If a particle is moving with speed V ~~t~~ in direction of south south and the magnetic field is out of the page. Then the ~~of~~ force is experienced in direction

a. North b. South c. East d. west

(23) The de-excitation of electrons can occur through

a. Spontaneous absorption b. stimulated absorption

c. Spontaneous emission d. ~~spo~~ stimulated emision

(24) If a particle ~~100~~ X having A = 219 and Z = 16 is converted into B having A = 219 and Z = 15 then particle emitted is

a. electron b. proton c. deutron d. neutron

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14 If the half life of an element is 3 days and we have 2 kg of it unchanged then what mass of it was a days back?

a) 16 kg b) 8 kg c) 12 kg d) —

(one MCQ about radiation)

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A: {1,2,3,4} B: {0,2,5,6} A∩B: ? (math)

If we have sin of a angle A What the angle of (math)

(0)

Question which circles touch internally & 4 options with 2 eqn of circle each given (math)

Subtraction possesses which properties (math)

Synonym of petite (English)

Which values of x satisfy $x^2 - 64x = 0$ (math)

If Area = 60 and a = 12 b = 20 find sin C (math)

Which function is decreasing in second quadrant (math)

a) $y = \sin x$ b) $y = \cos x$ c) $y = \ln x$ d) $y = e^x$

If a capacitor discharges to half of its charge in 1ms what is the time constant - (Physics)

Dehydrohalogenation means - (Chem)

Energy released in P-P cycle per nucleon is (Phy)

2 eqns like

$\frac{(x-a_1)^2}{a^2} - \frac{(y-b_1)^2}{b^2} = 1$ given vertex were required (math)

Eqn parallel to y axis at distance of d from and is given by ? (math)

If radius of earth is doubled keeping mass constant what happens to escape velocity (phy)

If we have a steel & and two forces acting on same side of 60 150 N & 100 N and angle b/w them is 60°. The resultant is ___ than 250 N (phy)

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Day: M T W T F S

Date: /

(10) Find the 7 Multiple Number b/w 30 and 300.

(11) if z is Complex Nos then $z + \bar{z} =$
(a) Real No (b) Rational No (c) irrational No

(12) 4, 7, 10, 13, ---- 52
From his theory I know that He want to find n = ?

(13) $(-1)^{1.5} = \underline{i}$

(14) what will be value of "a"

$$\lim_{x \to 1} \frac{ax^2 + 9x}{x - 1} = 9$$

(a) -9

(15) Find $\frac{dy}{dx}$ = $\sinh a^{x^2}$ = ?

(16) Period of tan = ?

(17) $\sin^{-1}\left(\frac{4}{7}\right) = \cos^{-1}\left(\frac{7}{7}\right)$

(18) $\tan 2\alpha$ = ?

(19) function $f(x) = x^2$ the graph lie on (a) I and II Quadrant

(20) The line parallel to x-axis then (a) x=0 (b) y=0 (c) ? (d) = ?

Babar Paper Product

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Date:

(37) For a fully discharged capacitor, the charge stored after 2RC is

(a) 63% (b) 32%

(38) The charge on bottom quark is

(a) $-2/3\,e$ (b) $-1/3\,e$ (c) $-e$ (d) $1/3\,e$

(39) The atmosphere is held with the planets due to

(a) gravitational force (b) electromagnetic force
(c) Nuclear weak force (d) Nuclear strong force

(40) $Y = \frac{mL\lambda}{d}$ → 3 marks from this formula

(41) The magnetic flux through area of $4\,km^2$ when magnetic field is $2\hat{i} + 3\hat{j} + K$ is ___.

don't remember exact statement

(42) The sensitivity of galvanometer is called

a. Current sensitivity b. Voltage sensitivity
c. Resistance sensitivity d. none of these

(43) The momentum of two bodies is p and 2p. The ratio of their frequencies is

a. 1:2 b. 2:1 c. 1:1

(44) The unit of power in British Engineering System is

a. horse power b. watt or

(45) Most Mass defect of which of the following is greatest?

a. $_{90}Th^{234}$ b. $_{92}U^{235}$ c. $_{1}H$ d. $_{26}Fe$

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6. If cooler falls on the top of
morgallo hills at the rate of 1.2 x 10^3 kg/s
and moves 5cm then what is the power
consumed :

7. If a man (80kg) is standing on a frictionless ladder
20 kg which has a height of 15m
and is making an angle of 60° with
a ~~frictionless~~ floor the exact force of
friction the floor applies on the ladder

8. A satellite orbits the Earth as a radius
r and velocity v. If the radius of orbit
is doubled then what is the new velocity?

a) $\frac{v}{2}$ b) $\frac{v}{\sqrt{2}}$ c) v d) $\sqrt{2}v$

(Came from 2017 Paper even the sequence
of options under were the same.

7. If a body (2kg) is attached to a spring
about 2m having k : 8000 dynes/m then
what is the energy stored in it

8. If a boy (moving) car horns a boy and the
sound listened by the driver is more
than the boy then what is the relation
b/w pitch and ~~freq~~ wavelength?

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English Portion :→

1) Correct Speeling. Pilgrimage

2) Correct Speeling. Perpendicular

3) Correct Spealing. absence.

4) Correct Speeling. refredgration.

5) He was ? to a Skeleton.
(a) Reduced (b) Punished (c) make (d) ?

(6) Paragraph Questions. (Esy)

Inteligence Portion :→

(1) 10000, 100, 8100, 90, 7200, 85, 6000, 75, 4200, 70, 3200, (60)

-10 -5 -10 -5 -10

(2) LABOUR ← is Codded ← MCDRWD' than
INSERS is Codded JPUHI correct

(3)

18	324	5832
42	168	672
36	216	1296

then

12	144	1728
25	125	625
38	228	?

(4) Direction Questions.

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Date:

(10) Which of the following transistors can be possibly used ? i- NPN transistor ii- PNP transistor

a. I only b. II only c. Both I and II

(11) Most Intrinsic semiconductors have

a. electrons b. holes or

c. equal no. of electrons and holes d. Neither e nor hole

attached with

(12) The shunt which converts galvanometer to ohave DC current is

a. Diode b. Resistor

(13) The efficiency of heat engine is given by

a. $\frac{W}{Q_1}$ b. $\frac{Q_2 - Q_2}{Q_1}$ c. $1 - \frac{Q_2}{Q_1}$ d. All of these

(14) At which place the simple pendulum will have the lowest frequency.

a. Lahore b. Karachi c. Murree d. Mount Everest

(15) The electric potential of a charge 4×10^{-9} C at a distance 4 cm is

a. -9000 N b. -7000 N

(16) The visible light spectrum range lies between

a. 7000 A to 4000 A

b. 4500 A to 3000 A

(17) For an isobaric process if P = 10 Pa and $\Delta V = 20\ m^3$ and heat content of internal energy of system is 10J Then heat supplied to system is —.

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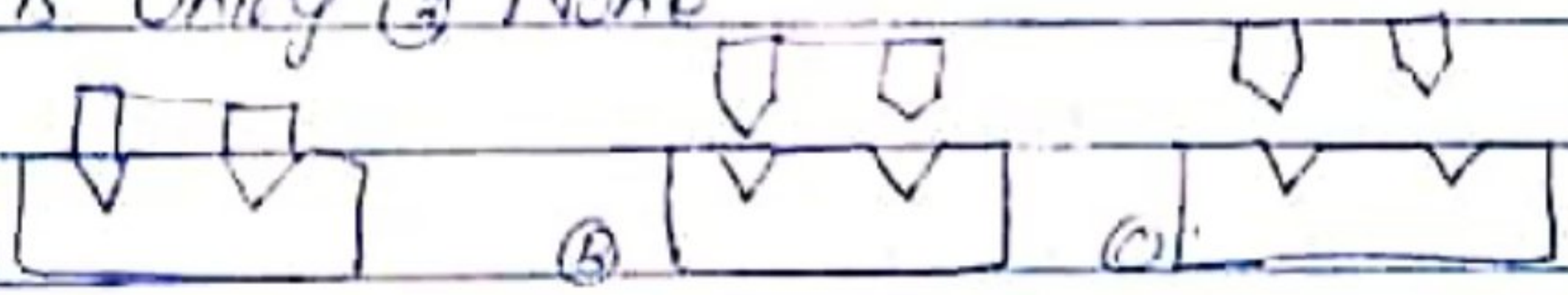
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7- Primary, Secondary Tertiary alcohols can be distinguished by Lucas Test in which:-
① Only layer appear ② Brown colour
③ None ④ Both

8- Which bond is weaker:-
① Ionic ② Covalent ③ Dative Covalent
④ Hydrogen bonding

9- Rate of Rex = Specific rate constant when
① Concentration of reactants collectively is unity ② Concentration of each of reactants is unity ③ None

10- 

Correct Order:-
① ABC ② BAC ③ CAB ④ None of these

11- 7th Period is..
① Complete ② Incomplete ③ ?

12- Higher Transition elements are in:-
① d-Type ② s,p-Type ③ Both.

13- The formula of cryolite:-
① Na_2AlCl_3 ② Na_3AlCl_3 ③ Na_3AlF_6 ④ None.

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a) If we can [illegible] then $T = ?$

a) 9.5 N b) 0.98 c) 980 d) 98 cm

ii) Huygen's principle about nature of light

a) Same b) different c) both above

iii) Damping is a [illegible] in which

a) 2 waves travelling in same direction & same frequency are ?

b) light wave are folloed back motion again

c) frequency in medium

d)

e) very small λ

all of the

iv) we get order of bright & dark fringe are:

a) double S.H

v) $T = 5°C$, $P = 1$ atm & $V =$ [illegible]
$T = 7°C$ $P =$ [illegible] & $V = ?$

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Date:

NET (SERIES-3) McQs PHYSICS

① For a particle $A = E/c^2$ where E = energy of particle and c = speed of light. Then the dimension of A is ——.

② The acceleration of a body at maximum height is
a. maximum b. minimum c. zero d. constant

③ Range of projectile is :
a. time in which it completes its motion
b. distance travelled from point of projection to back on ground

④ Volume of a solid cylinder of radius 5m and height 10m is ——.

⑤ Which is NOT a nonconservative force.
a. Friction force b. Normal force
c. Tension in string d. None of these

⑥ A body perform SHM motion. For it $x(t) = A\cos(\omega t)$.
where A = amplitude, x = displacement, and
If x = 100 cm and A = 45 cm then find θ in degrees.
a) 0.6 b) 0.8 c) 1 d)

⑦ A body oscillates about its mean position. The distance at which its P.E is equal to its K.E is —— of the maximum displacement of the body.
a. Half b. doubled c. tripled d. remain same.

⑧ Black body curves are described completely by
a. Newton's formulation b. Quantum's theory

⑨ wheatstone bridge is made of —— resistors
a. one b. two c. three d. four

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(6) $\int_{\infty} \frac{1}{x^2+1} dx = ?$

(7) If $l_1 \Rightarrow x-y+3=0$, $l_2 \Rightarrow x+y+9=0$. Then θ b/w $l_1, l_2 = ?$

① 90° ② 0° ③ 30° ④ None

(8) The slope of (2,5), (6,7) is ?.

(9) The slope of (-1,6), (7,9) is ?.

(10) Feasible solution is restricted to IST quadrant.

(11) The points of intersection of $x+2y=8$, $2x+5=-9$ are ?.

(12) If $A+B$ and are of opposite sign. Then $\overline{11}$ is:-

① Parabola ② Ellipse ③ Hyperbola.

(13) $2x^2+2y^2+4x-6y-15=0$ is eq. of

① circle ② parabola ③ Ellipse

(14-15) Two more qns are related to above question.

(-2+01) is of Standard Equation:-

(16)

① $y^2=-8x$ ② $x^2=-8x$ ③ $x^2=-4x$

Checked by _____ Excellent ___ Good ___ Need Improvement

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→ product of

→ Slope of x=

→ Unit vector

→ positive c

→ 2-3 → Integration

→ Length 24 times

Time period will ?

→ $-\cos\theta = ?$ $\cos\theta$ sine

→ ~~tangle will if light~~ angle of elevation of height = 100m Shadow of 173.2m

→ Y ax

f(x

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Date: □□-□□-□□

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28. 97 Qn^th term of sequence 2,4,6 is. 28 then term is:- ?

29. Which one is neither G.M nor A.M. ① ?.

30. An infinite series were given and we had to find S∞.

31-32. Two more MCQs from this chap.

33. The term which is independent of "x" in $\left(x^2 - \frac{1}{2x}\right)^7$ is:-

① No term exists ② None ③ ?.

34. ① The probability of selecting 11 players out of 15 players in which captain must include is:-

35. Two more ques. related to above

36. Incorrect:-

① $\cos^2\theta = 1 - \sin^2\theta$ ② $1 - \tan^2\theta = \sec^2\theta$ ③ $1 + \cot^2\theta = \operatorname{cosec}^2\theta$

37. If $\sin\theta = 2\sin\alpha$ then θ=?.

38. If a=3B — b= hypotenuse is 30 then circumradius is ?

① 17 ② 16 ③ 34 ④ None.

39. The area is given and a and b sides are given then sinx =?.

Checked by: _____ Excellent [ ] Good [ ] Need Improvement [ ]

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(16) Sum of
$2+4+6+\dots+2n$ =

(17)



If $a=2$ this is parabola
& hyperbola

(18) UNOF is true?
(a) Domain of sin(x) is R
(b) Domain of cos(x) is R
(c) Range of sine is $\{-1 \le y \le 1\}$
(d) ADD

(19) The ratio of 64, -32, 16, -8 ...

(20) The ratio of 1, 0.1, 0.01, ... is

(21) If $y = \frac{\ln x}{x}$ and x is very small but +ve then y is
(a) Small number
(b) Small number

(23) $\lim_{x \to \infty} \frac{1-\cos x}{x^2}$

(24) $\lim_{x \to 0} \frac{e^{2x}-1}{x}$ is

(25) $f(-x) = f(x)$ then
(a) f is odd
(b) f is even
(c) f' is odd
(d) f' is even
(e) Both a & d
(f) Both b & c

(26) (S, R) represents
(a) Class of pair
(b) Binary relation

(27) If Sin relation b/w
$A = \{1,2,3,4\}$ $B = \{a,b,c,d\}$
$S = (1,b)(2,d)(3,c)(4,a)$
then S is ?
(a) function
(b) one-one function
(c) onto function

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25) c transp gas cloud :)
a) O b) ||s; c) □

26) In Er may rel
a) b) ↔ c) O

28) V = 1000 , to C = □ , then energy stud?

29, 30, 31) R = ρL/A (Si to ohms Kar 3 a c)

32) F = ILB(sin θ)

33) If no of turn of Sole is more, the B?

34) If area of Sole is incred, then B?

36) — x = x0 Sin π/100 t)
Shows Velocity?

35) E = NWab (generator D.C) when F?

37) In n-type or Photo-voltaic Cell, when light falls on n-region, the elect.-hole is generated & Scattered

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Date:

(1) $\lim_{x \to 2} \frac{\alpha x^2 + 4}{x - 1} = 8$. Find α.

(2) Secθ is undefined at $\theta =$

(a) $\frac{\pi}{2}$ b. π c. 2π d. 0°

(3) Cosecθ is undefined for $\theta = 0$

a. $\frac{\pi}{2}$ b. $\frac{3\pi}{2}$ c. 0° d. 2π

(4) The area of triangle is $5 cm^2$ when two sides are of length 5 cm and 4cm. Then angle between them is.

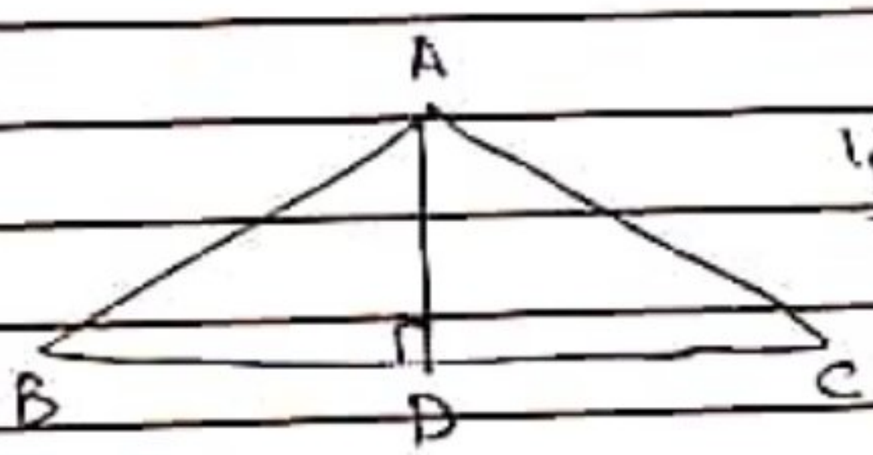
(5) If $l_1 = x + ay + c$, $l_2 = ax + y + c$, then a will be —— if they are perpendicular.

(6) The area bounded by $x^2 - 1$ from $x = 1$ and $x = 3$ is

↳ Ex 3.7 (2nd Y)

(7) If A(1, 2), B(3, 4), C(1; 5), D(8, 9) for parallelogram ABCD. Find length of $\overrightarrow{DB}$

(8)



If $\angle ABC = 60°$ $\angle BCA = 60°$

AB = 6 cm

Then find $\overrightarrow{AD}$.

(9) If the exterior angle of B $\angle B = 120°$ and and $\angle C$ is 30° then $\angle A = ?$ for a triangle ABC

(9) Determinants of three by three → q 4, 5 Qs from

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Date:

(30) Two body of 1 ton and 2 ton are moving in a circular path. The force that causes the the mass of 1 ton is

a. less than that of 2 ton c. same as that of 2 ton
b. more than that of 2 ton d. None of these

(31) If frequency of a wave is doubled then its momentum would be ___

(32) If the velocity of a body is increased by 25% then its K.E increases by ___

an

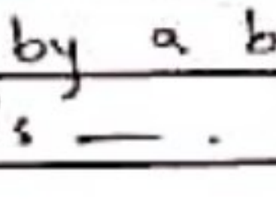
(33) If the K.E increases by 50% then the ~~ch~~ increase in work done is ___.

(34) The work done by a body of mass 5 Kg at a height 10m for 10 sec is ___.

(35) The product of 3.056 and 3.15 is 9.6264. The no. of significant figures in it are

a. 2 b. 2 c. 3 d. 4

(36) For the given body, if direction of force is reversed then direction of torque become to counterclockwise direction



an also reverses by

a. counter clockwise b. Clock wise c. None of these

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Date:

(10) Which of the following transistors can be possibly used ? i- NPN transistor ii- PNP transistor

a. I only b. II only c. Both I and II

(11) Most Intrinsic semiconductors have

a. electrons b. holes for

c. equal no. of electrons and holes d. Neither e nor hole

attached with

(12) The shunt which ~~connects~~ galvanometer to share DC current is

(a) Diode b. Resistor

(13) The efficiency of heat engine is given by

a. $\frac{w}{Q_1}$ b. $\frac{Q_1 - Q_2}{Q_1}$ c. $1 - \frac{Q_2}{Q_1}$ d. All of these

(14) At which place the simple pendulum will have the lowest frequency.

a. Lahore b. Karachi c. Murree d. Mount Everest

(15) The electric potential of a charge 4×10^{-3} C at a distance 4 cm is

a. -9000 N b. -7000 N

(16) The visible light spectrum range lies between

a. 7000 A to 4000 A

b. 4500 A to 3000 A

(17) For an isobaric process if P = 10 Pa and $\Delta V = 20\ m^3$ and heat content of internal energy of system is 10J Then heat supplied to system is —.

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8. $\lim_{x \to \infty} \left(1 + \frac{3}{n}\right)^{2n}$?

a) e^6 b) $e^{3/2}$ c) $e^{2/3}$ d) e^1

Two more questions related to limits and types of functions.

9. $\int \frac{1}{x \ln x} dx$

a) $\ln(\ln x) + C$ b) $\ln(x) + C$ c) $\ln(\frac{1}{x})$ d.

10. A point (x_0, y_0) (Some values were given which I don't remember) lies on, below or above $ax_1 + by_1 + c$?

11. At least 4 questions were from Conics of the type:-

eccentricity of ellipse

major axis of ellipse All were from ellipse

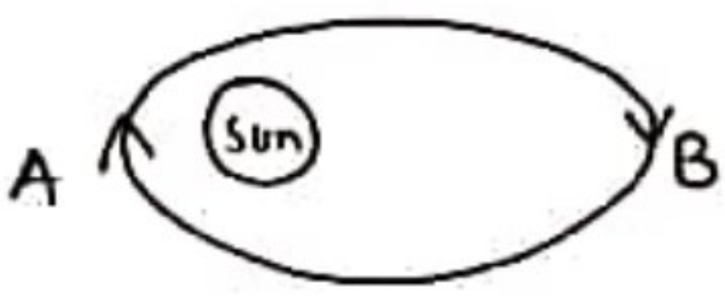
focus " "

latus rectum " "

12. If a vector is $\underline{a}$ and another $\underline{b}$ then what is the projection of $\underline{a}$ on $\underline{b}$

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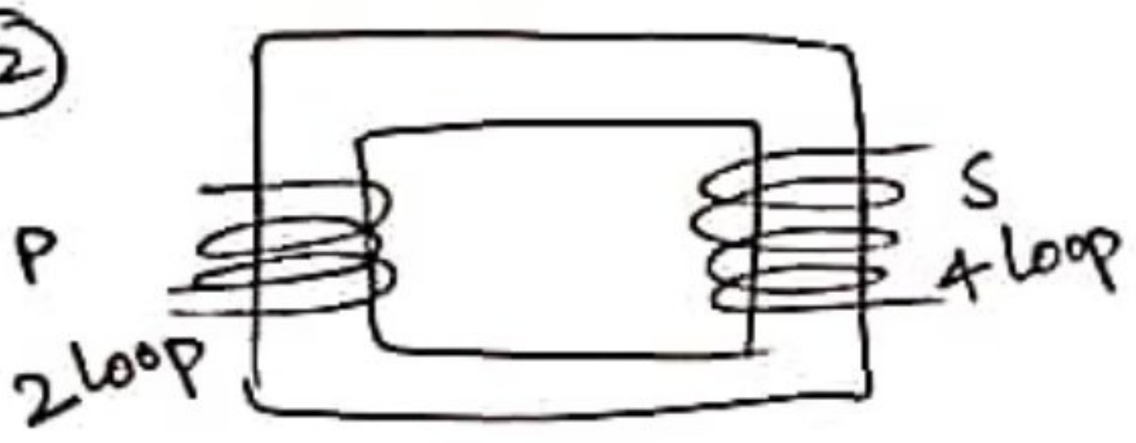
⇒ Physics

① 

If a satellite move from A to B then

(a) K.E and Speed are decreases (b) K.E & V decreases

(c) K.E increases V decreases (d) K.E increases V decreases

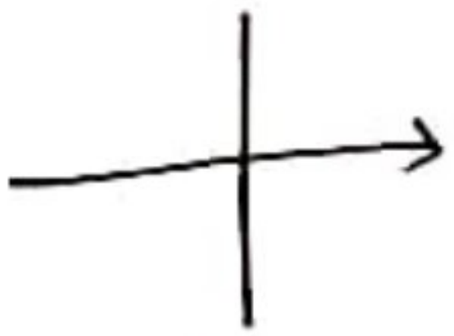
② 

V = Given
R = Given
find I in resistor in Secondary Coil

③ (Optics) ⇒ Find firing spaces

④ Prefixes ⇒ pico, nano & giga

⑤ α-particle ⇒ gold ~~sheet~~ foil

(a) 

(b) 

(c) 

(d) 

(6) Find Impulse

7) A.C in rectifier diode

(a) graph

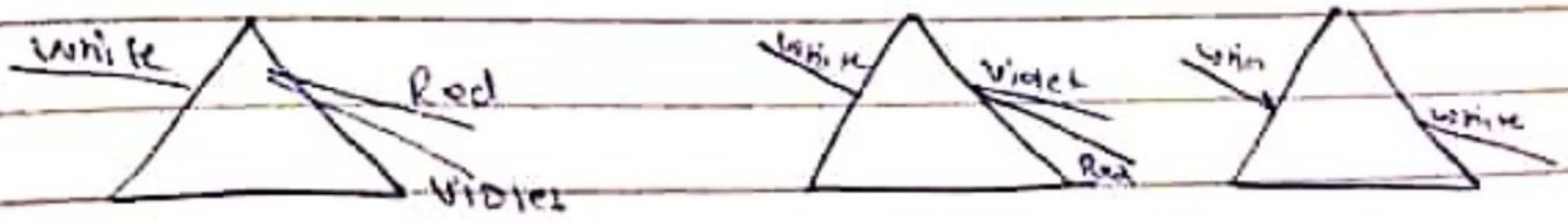
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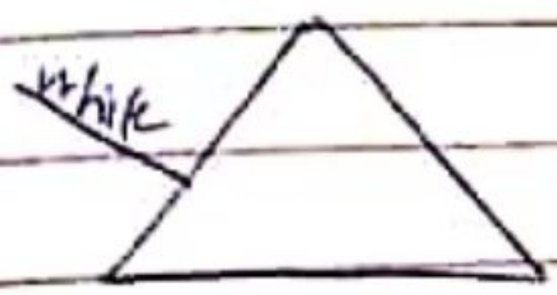
(b) graph

"

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9.





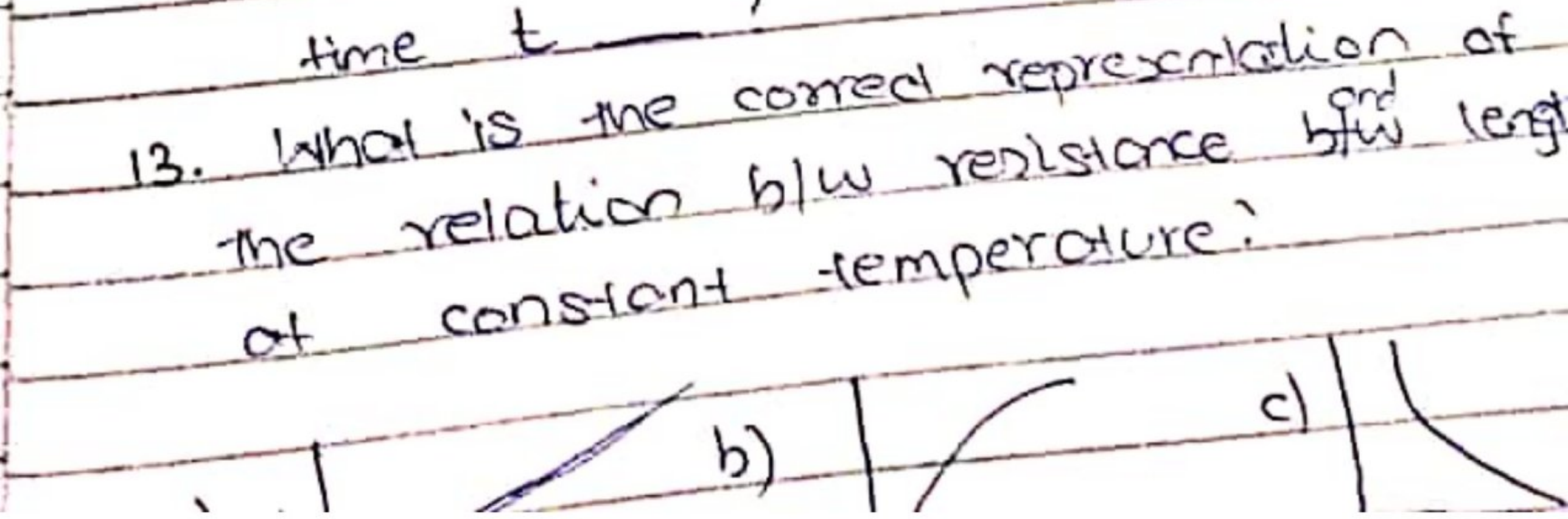
? which one is correct

10. If the light waves are converged back from a mirror then what is the position of the truck?
(one more question from light chapter)

11. Which of the following quantity is most intensive?

12. If a burner takes current I: — and has resistance — then how much electrical energy it consumes in time t — ?

13. What is the correct representation of the relation b/w resistance and length at constant temperature:



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Date: □□-□□-□□

DAY: □□□□□□ M T W T F S

17. Area Volume of parallelopoid of $\vec{a}, \vec{b}, \vec{c}$ is + then $\alpha = ?$

18. $i \times (j \times k) = ?$

① 1 ② -1 ③ 0 ④ None

19. $i \cdot (j \times k) = ?$

① 1 ② -1 ③ 0 ④ None.

20. If $a = 2i + 3j - 4k$, $b = di + 9j + 5k$ are perpendicular then $d = ?$

21. The real part of $(4+i)^2$ is ?.

22. The absolute value of $\frac{1+i}{3-i}$

$(\cos 60 + i \sin 60)^{\frac{1}{2}} = ?$.

Which one is equal to Universal set ?

① $A \cup A$ ② $A \cap U$ ③ $A \cup U$ ④ None.

If $A = \{1, 3, 9, 2\}$, $B = \{2, 8, 5\}$ then $A \cap B = ?$

① $\{2\}$ ② 2 ③ $\{1, 5\}$

If $A = \begin{bmatrix} 8 & 2 & -3 \\ 1 & 5 & 3 \\ 6 & -1 & 2 \end{bmatrix}$ is singular then $d = ?$

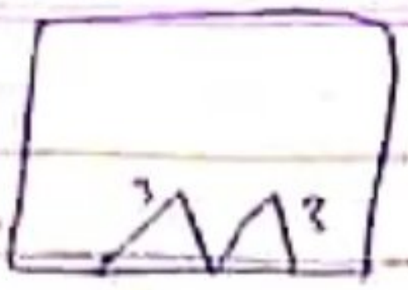
The H.M btw $\frac{1}{5}$ and $\frac{1}{8}$?

Checked By: Excellent ☐ Good ☐ Need Improvement ☐

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6/8/2020

Today NET Morning

↳ 5 MCQs like →  ,  Finding Area of shaded Region  ,

↳ $a^{\sqrt{n}} \Rightarrow ?$

↳ sum of interior angle = sum of exterior Angle. Find No of sides.

↳ $\sum_{n.}^{\infty} (-1x)^n$ → Gr. Series ← (about Four MCQ Just like it.

↳ > 20,000 Find 5 digit Number ~~of~~ 0,2,3,5,8 Repition Not Allowed.

↳ $\cot\left(\frac{1}{1+\tan t}\right) = ?$
$\frac{}{\tan t}$

↳ The maximum function is : Whole Definite

↳ Taylor series of $\ln(1+x) = ?$

↳ $\int \frac{5x-9}{x^2-9^2} \Rightarrow ?$

↳ Inequalities → 5-6 - Question

↳ piece wise function → 3 - MCQ

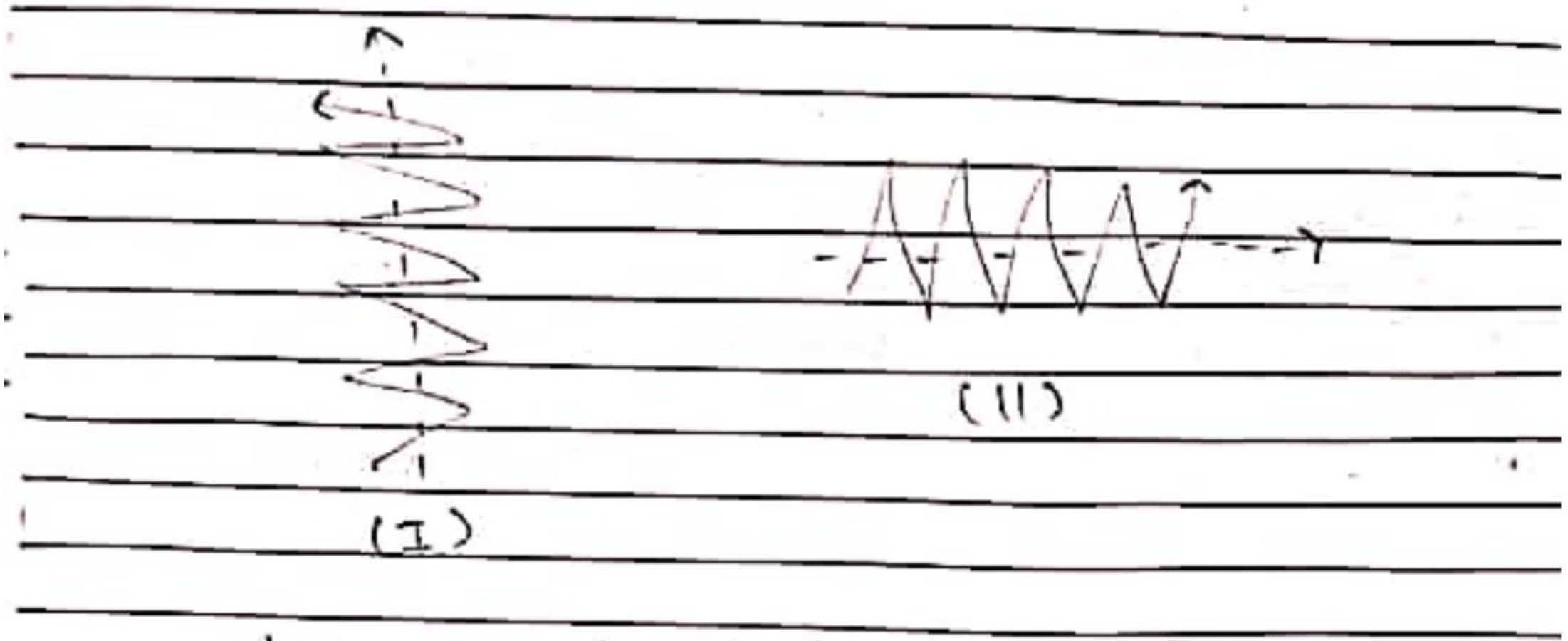
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Date:

(25) For a closed organ pipe what will be the frequency is ... .

→ $f = \frac{v n}{4L}$ - using this formula.

(26) Which of the following wave is longitudional.



where - - - - → = direction of propagation

——→ = direction of disturbance of medium.

a. I b. II c. Both I and II d. Neither I nor II

→ it is II as well

(27) If frequency is same and intensities are different such that $I_1 > I_2 > I_3$ then their stopping potentials will be

a. $V_1 > V_2 > V_3$ b. $V_1 < V_2 < V_3$ c. Remain constant

(28) which of the following has same dimension as v^2/r?

a. acceleration b. momentum c. Force d. All of these

(29) The emf induced due to change in magnetic flux of the coil is.

a. Self Inductance b. Mutual Inductance

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Date:

(37) For a fully discharged capacitor, the charge stored after 2RC is

(a) 63% (b) 32%

(38) The charge on bottom quark is

(a) $-2/3\,e$ (b) $-1/3\,e$ (c) $-e$ (d) $1/3\,e$

(39) The atmosphere is held with the planets due to

(a) gravitational force (b) electromagnetic force
(c) Nuclear weak force (d) Nuclear strong force

(40) $Y = \frac{mL\lambda}{d}$ → 3 MCQs from this formula

(41) The magnetic flux through area of $4\,cm^2$ when magnetic field is $2\hat{i} + 3\hat{j} + K$ is ___.

don't remember exact statement

(42) The sensitivity of galvanometer is called

a. Current sensibility b. voltage sensitivity
c. Resistance sensitivity d. none of these

(43) The momentum of two bodies is p and 2p. The ratio of their frequencies is

a. 1:2 b. 2:1 c. 1:1

(44) The unit of power in British Engineering System is

a. horse power b. watt or

(45) Max Mass defect of which of the following is greatest?

a. $_{90}Th^{234}$ b. $_{92}U^{235}$ c. $_{1}H$ d. $_{26}Fe$

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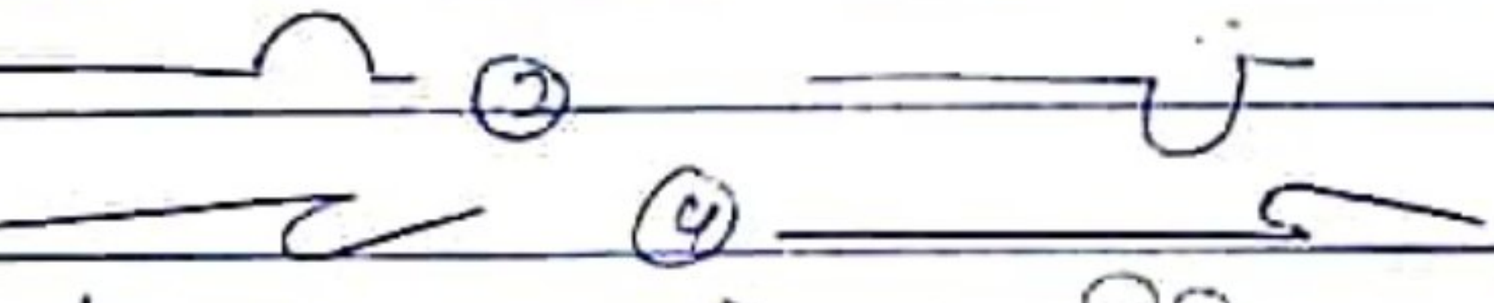
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DAY: □□□□□□ M T W T F S

18. The energy of sound waves is proportional to :-
① frequency ② wavelength ③ velocity ④ None

19. Out of phase, when waves meet at a point. Then
① full constructive interference ② no effect
④ Same phase ③ full destructive interference.

20. Which is correct when waves Transverse incident on donse medium:-



21. Which one is vector quantity :-
① $kgms^{-1}$ ② $kgms^{+2}$ ③ kg

22. If mass is doubled, spring constant is doubled Then Time period is ?
① constant ② Doubled ③ half

23. The SI unit of Magnetic Torque :-

24. The Electric field is :-
① Scalar field ② Vector field ③ Both ④ None

25 : If $F = 10N$. $d = 4m$ and $\theta = 30°$ Then. Calculate ?
① -20J ② 20J ③ 40J ④ -40J

Checked By: Excellent

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(42) if $\tan\theta = -\frac{3}{5}$ then find $\sin\theta = ?$ if $180° < \theta < 360°$

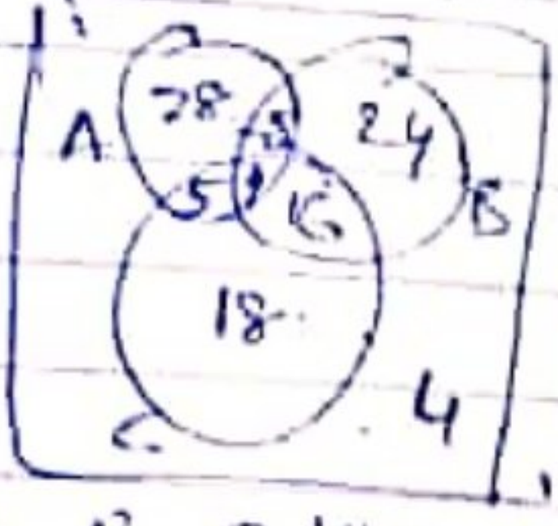
(43). Write $\cos(-x)$ in terms of $\sec x$

(a) $-\sec x$ (b) $-1/\sec x$
(c) $1/\sec x$ (d) $-\sec(-x)$

(44) if $\begin{bmatrix} 2 & 4 & 5 \\ 1 & 3 & 2 \\ a & b & 5 \end{bmatrix}$ is singular find a & b

(a) (b)

(45)



people like A, B, C like any one find number of person liking atleast one tea out of 100

(46) Wot is not mutually exclusive events

(a)

(47) $\int \frac{12x^3 - 15x^2 + 24x - 15}{3x^4 - 5x^3 - 12x^2 - 15x + c} = ?$

(a).

(48) Find vertical asymptote of conduct of circle $x^2 + y^2 = 21$ if tangent drawn from $(-, -)$

(49) if $y = x^2$, $x = 1$ and $dx = 0.1$ find dy.

(50) $\sum_{k=1}^{\infty} \frac{3}{10^k} = ?$

(51) If a line passes through $(3,4)$ then tangent & angle at point is

(52) If $(4,0)(0,3)(0,0)$ are vertices of triangle then triangle is
(a) right triangle
(b) right isosceles
(c) isosceles

(53) Equation of line parallel to x axis at distance d
(a) $x = d$
(b) $y = d$
(c) $y = -d$
(d) none

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a) If we go 400 deep on H then T=?

a) 9.8 m/s b) 0.98 c) 980 d) 98cm

10) Huygen's postulate about nature of light

a) Same b) different c) both Classic

11) Damping is a Term in which?

12) 2 wave travelling in same direction & same freq are?

13) light wave are follow Particle nature beam

a) transverse in nature

b)

c) very small 2

d) all of the

14) we get order of which & dark fringe beam?

Double slit

15) $T_1 = 5°C$, $P_1 = 1$ atm & $V_1 = \square$
$T_2 = 7°C$ $P_2 = \square$ & $V_2 = ?$

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→ pf → elasticity spring

opt in afg

→ x^2+c then area from $x=1$ to $x=3$

Remember me in your Prayers!

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Physics Net III.

(i) If $|\vec{A}| = 10$ $|\vec{B}| = 10$ $\theta = 60°$ Then $\vec{A} - \vec{B} = ?$

(ii) If $\vec{A}$ & $\vec{B}$ are vectors to plane then vector perpendicular to both vectors.

(iii) The number of significant figure is 0.0025 are

(iv) The number of significant figure in 0.0205

(v) The zero the 0.905 are zero digit (a) significant (b) non-significant (c) not be determined.

(vi) 1g f.p.t. = 1M Sph. Find (Vi)

(a) Find $\frac{T}{T'}$ If $F = 1000$ $R = 10^7$ $V = 5$.
($E = 2.16$ eV)

(b) Find value if $n = 2$
$r_n = n^2 0.53 \text{ Å}$ $\lambda_1 = 4(0.53) = 2.12$

(c) Less about for.

(x) Cor $\lambda = 0.052$ nm $\cos\theta = 60°$
$\lambda' = ?$

(xi) Rest mass of photon = ?
(xii) Isotopes of cesium = 36.
(xiii) Numerical 19.6 Part c.

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→ Product of complex numbers

→ $z = (\cos x + i \sin x)^n$ → which convert input to electrical energy!

$x = \pi/4$ $n = \Pi$ → absolute value of z

→ $\frac{(2n+1)!}{(2n-1)!}$ ⇒ → $2n$ → n^2 → $(2n+1)$ → $\sum_{n=0}^{\infty} n^2 = ?$

→ $\frac{1}{6}, \frac{1}{3}, \frac{1}{10}, \ldots$

→ Presence of Dielectric will?

→ R 3 identical R in series, what will be current?

→ if Vb one terminal of 6V & 4V

+ve −ve terminal

if resistor attach to 6V & 4V then?

−ve +ve

→ if # perimeter is 100cm of rectangle then possible large number will?

a) 25, 25 → Area of parallelogram given by
b) 40, 1 = A × B
c) 19 10 = AB

→ $\varepsilon = Vt$? when?

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NET - 3 (2 Minutes Running).

Maths

(1) Which of following is true?

(i) $z_1 = z_2 \Rightarrow z_1^2 = z_2^2$

(ii) $z_1 - z_2 \Rightarrow z_1 = z_2$

(a) I only (b) II only

(c) Both I & II (d) Neither I nor II

(2) $\text{Im}(\cos\theta + i\sin\theta)^n$ is if $\theta = \pi/4$, $n = 14$

(a) 1 (b) 0 (c) Imaginary (d) Nil

(3) Additive Identity of a complex number is?

(4) $(-1+\omega)^6 = ?$

(5) $\cos 2\theta = ?$

(6) $\sin\left(\frac{3\pi}{2} - \theta\right) = ?$

(7) $\sin\theta + \sin\phi = ?$

Number of terms from 2 to Positive Integral multiple of 4?

(8) If $P(A) = 0.5$, $P(B) = 0.3$, $P(A \cap B) = 0$

(9) $\frac{x}{4} + \frac{y}{5} + 1 = 0$ then distance from point (origin) to line is?

(10) The 11^{th} term of A.P. .....

(11) If $a_1 = 1$ & $a_{n+1} = 2(a_n + 1)$ then find $a_3 = ?$

(12) If $\sum_{n=3}^{3} n = ?$

(13) $\sum_{n=3}^{40} n = ?$

(14) Area of triangle. Three vertices are given.

(15).

Area of a square.

If area of complete square and distance of $x = 2$ are. Demand the area of

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(26) If $\frac{x^2}{4} + \frac{y^2}{7} = 1$
the — one foci = ?

(27) The asymptote of (Hyperbola has equation the

(28) If $x^2 = 4ay$ then eq of directrix.

(31) If a plane cuts a cone parallel to axis then conic is?
(a) Circle (b) Ellipse
(c) Hyperbola (d) Parabola

(32) For general eq:
$ax^2 + by^2 + 2gx + 2fy + c = 0$
$a \neq b$ represents and $a = b$ represents opposite signs?
represents.

33) Same as
34) Same Questions as (32) only diff conditions

(35) $\int \sqrt{\text{Trigonometric}}\, dx =$?

(36) $f'(x)$ of $\sec x$ at $x = ?$

(37) If $f'(x)$ of $\cos x \sin x = 0$ then $x = ?$
(a) $\pi/2$ (b) π (c) $\pi/4$ (d) 2π

(38) For what value of k, two lines are perpendicular.
Three — are given

(39) If end points of diameter are $(-,-)$ & $(-,-)$ then find radius and center.

(40) Value of $10°40'$ in radian?
(a) 0.18475...
(b) 0.1872 (Difficult)
(c) 0.1881

(41) What is fundamental law
(a) cos: cos is constant in single
(b) —

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WELCOME ON BOARD

Physics

where I = Energy
T → Moment of Energy
ω → angular frequency
find a Eq.

(2) 1.2 kg/m³ in g/cm³

(3) Unit of Moment of inertia

(4) Very funny:
Unit of mass in SI system

(5) Unit of Electric field
(a) V/m
(b) $\frac{kg\,m}{C s^2}$
(c) $\frac{kg\,m}{A s^3}$
(d) All

(6) Who has studied wavelength of Violet colour?

(7) Change in momentum is called

(a) Impulse (b) Torque
(c) Random (d) Unit

(8) Photoelectric work function is

(a) Energy and the current is flow

(b) ....

(11) Force on a charge in an electric field is

(a) Parallel (b) Perpendicular
(c) ...

(12) I = 1 A, B = 5T
L = 2 m F = ...
Eq is F = BIL sin θ

OPPO F7

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19) 10 men & 6 women, in how many ways a Committee of is formed to include 4 women

H) $\sum_{k=1}^{k=\infty} \left(\frac{-1}{3}\right)^n$, the Sum of Series ? is diverge ?

R) $(n-1)$ is fact of $n^5 - n^4 + 3n^3 + n^2 + 1$, then other fact is ?

m) which one of following is not clathrate.

a) fructic b) lactose c) Maltose

20) CFC & ☐, which one is Pollutant

21) weak acid can be Compressed by adding

22) H-F, H-Cl, H-I, H-Br, High bond energy ?

23) effusion can only by

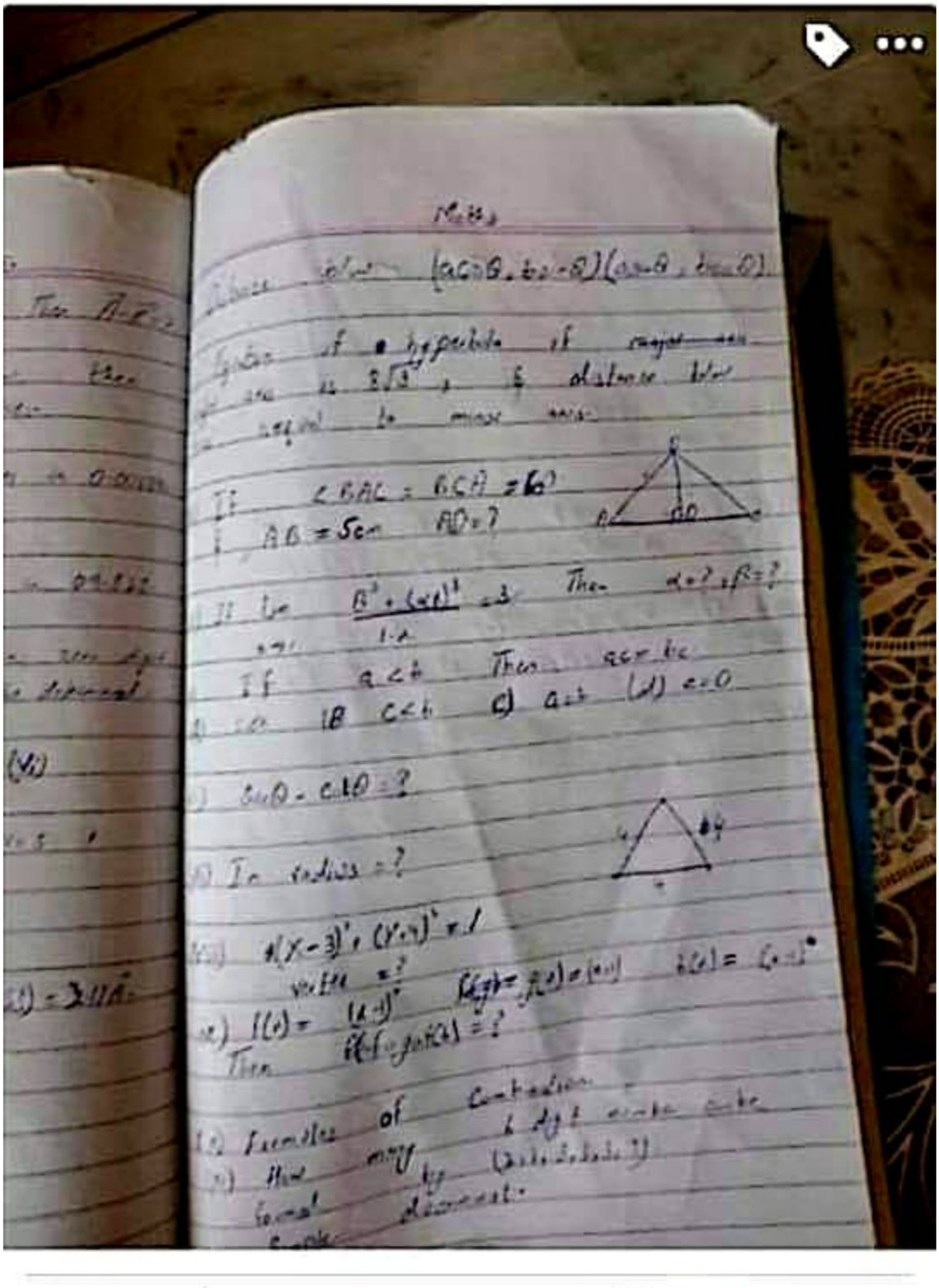
a) liquid b) Solid c) gas

24) Kc have by

a) 0 b) - c) +

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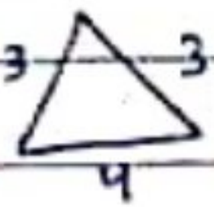
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Day. M T W T F S

Date. / /

Maths Postion

1) $\left(\frac{x-1}{x+1}\right)^2 \left(\frac{x+1}{x-1}\right)^2 = \underline{\quad 1 \quad}$

2) 

Area of triangle = ?

3) $2x + 4y = -5$ and Point (4,5)
Find equation of normal.

4) $\frac{x^2}{16} - \frac{y^2}{9} = 16$ Find eccentricity.

5) $2x^2 - 6x + 2y(y+3) - 50 = 0$
This is the equation of
(circle) ✓

6) Multiplicative inverse of Unit Complex Number is.
a) (1,0) (b) (0,0) (c) does not exist.

7) Find angle whose radius of circle is 30cm and circumference is 60cm. ?

8) $a_{n-2} = 3n - 11$ Find the n^{th} term.
a) $3n-5$ (b) $3n-4$ (c) $3n-2$ Me ④ ✓
Not confirm

9) Find the equation. y-intersep = yad nahi
and slop: yad nahi .

Bahar Paper Product

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(25) If frequency of a point of wave and total wave are (a) equal (b) frequency greater (c) first great (d) none

(26) If amplitude of harmonic changes from 1 to 4, then max. acceleration at x=4 is? (a) 4 times (b) $\frac{1}{4}$ times (c) 2 times (d) $\frac{1}{2}$ times

(27) 

(a) Increases (b) Decreases (c) Remain same (d) NOT

(28) If man is enclosed to half and volume extended then pressure inside cabin will be?
(a) $\frac{1}{4}$ times (b) 4 times (c) 2 times (d) Remain same

(29) If R_1, R_2, R_3 are real. $R_1 < R_2 < R_3$ are gravitational atomic then R_{eq} is? (a) $R_{eq} > R_3$ (b) $R_{eq} < R_1$ (c) $R_{eq} < R_2$ (d) $R_1 < R_{eq} < R_3$

(30) If three forces are equal and resultant is also equal to one of them then angle b/w them is?

(31) WM eq is correct?
(a) $v_f = v_i + gt$
(b) $s = ut + \frac{1}{2}gt^2$
(c) $2as + v_f^2 = v_i^2$
(d) None

(32) If e⁻ transition from n=1 to 4 then it's P.E?
(a) Increases (b) Decreases (c) Remain same (d) NOT

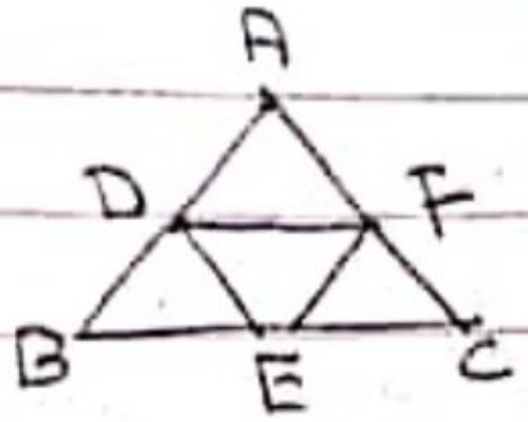
(33) If ball dropped from height 98.75 m
It will take ... seconds

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Maths

1)



2) ABC is a triangle whose area is 32, DEF is midPoint of Side, then ratio of ABC to DEF?

2) The angle of $\sqrt{81} + 3\sqrt{9}j$ with + y axis?

3) two Correct of vectors are 10N & making 60° The value of Resulted is

4) $i \cdot (j \times k)(ki)$

5) when we accelerate Car on, then force which acts is?

a) tires friction b) Normal to road c) air fric.

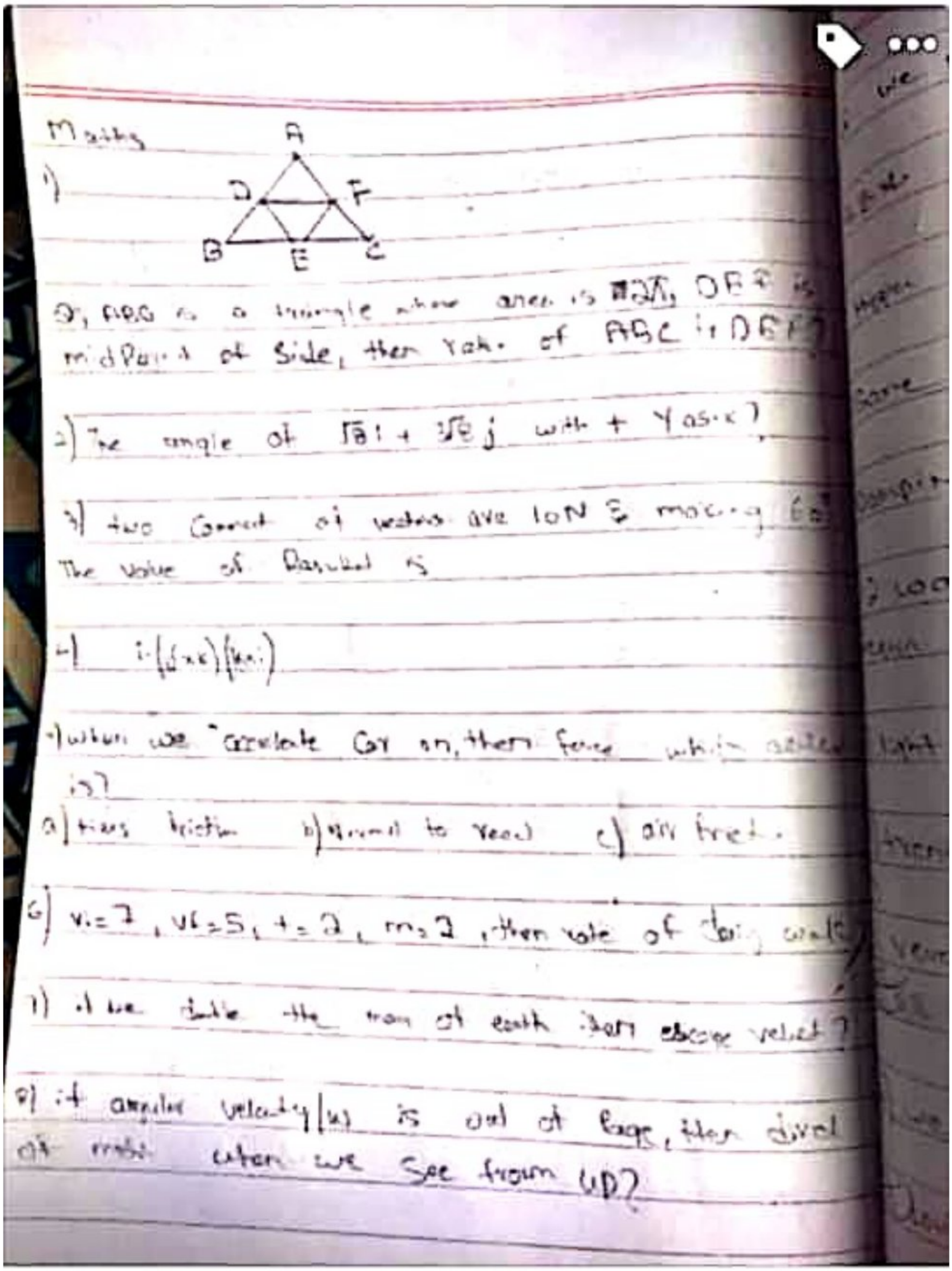
6) $v_i = 7$, $v_f = 5$, $t = 2$, $m = 2$, then rate of doing work

7) if we double the mass of earth then escape velocity?

8) if angular velocity ω is out of page, then direction of motion when we see from up?

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Maths

1)

3) If ABC is a triangle whose area is ▯, DEF is midPoint of Side, then Ratio of ABC : DEF

2) The angle of $\sqrt{3}i + \sqrt{3}j$ with + Y axis)

3) two Coreal of vectors are lON & mag 6 The value of Parallel is

4) $i \cdot (j \times k)(k \cdot i)$

5) when we "Accelate Car on, there force which acted on?

a) tires friction b) Normal to road c) air fret.

6) $v_i = 7$, $v_f = 5$, $t = 2$, $m = 2$, then rate of being work

1) if we take the sum of each three above velocity

2) if angular velocity $|\omega|$ is out of bags, then direct of motion when we See from UP?

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26. Which one consumes more heat?
i. 60W bulb in parallel
ii. 60W bulb in series
① i ② ii ③ Same ④ None

27. If voltage becomes one time then wavelength?
① half ② Double ③ 1/4

28. If Compton shift = 1/2 Compton wavelength
Then θ = ?
① 60° ② 30° ③ 90° ④ 120°

29. In a Hamburg Principle:
① Position & Momentum cannot be measured accurately of subatomic particle
② " " of electron ③ " can be measured accurately

30. Angular velocity is:
① 2πf ② 2π/f ③ 2π/f ④ None

31. If r = 10m and ω = 2m/s calculate the v = ?

32. Q. Two questions was related to direction of current using Right Hand Rule

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→ 2 Ques from coding decoding.

→ ε ? if No of turns - 100, ϕ 2×10⁻⁴ Wb in 0.02 s ?

→ if string stretch 0.02m, mass M hung on it then frequency will, in SHM

→ $2\tan^2 y + \sin y = 3$ value of y or sin y

→ Product of matrix

→ Inverse of matrix

→ "MCQ - ans on neg ε
Di " "
di " ε

→ F. 100N, Velocity will?, ~~m~~ m=10 kg

→ 3 pi rad = ? degree

→ 1 degradion = ?

→ If X come from one side & Y from opposite side, such that its shadow lies on left side of X then what will be ? be facing? → north
south
west
east

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Date:

NET (SERIES-3) McQs PHYSICS

① For a particle $A = E/c^2$ where E = energy of particle and c = speed of light. Then the dimension of A is ——.

② The acceleration of a body at maximum height is

a. maximum b. minimum c. zero d. constant

③ Range of projectile is :

a. time in which it completes its motion

b. distance travelled from point of projection to back on ground

④ Volume of a solid cylinder of radius 5m and height 10m is ——.

⑤ Which is NOT a nonconservative force.

a. Friction force b. Normal force

c. Tension in string d. None of these

⑥ A body perform SHM motion. For it $x(t) = A\cos(\omega t)$.

where A = amplitude, x = displacement, and

If $x = 100$ cm and $A = 45$ cm then find θ in degrees.

a) 0.6 b) 0.8 c) 1 d)

⑦ A body oscillates about its mean position. The distance at which its P.E is equal to its K.E is —— of the maximum displacement of the body.

a. Half b. doubled c. tripled d. remain same.

⑧ Black body curves are described completely by

a. Newton's formulation b. Quantum's theory

⑨ wheatstone bridge is made of —— resistors

a. one b. two c. three d. four

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Chemistry.

↳ $H_2 + O_2 \longrightarrow H_2O$

Reaction occur in A) 1/3rd micro (B) 1s (C) 1day second (D) 1 week.

↳ of vapour pressure greater than Raults law then → option (A) positive (B) Negative (C) Neutral

↳ Find least No of molecules =?

↳ which one of element in halogen is most reactive =?

↳ Enzyme use in nature =?

↳

Physics.

↳ Dimension → 5-6 ↳ MCQs

↳ Ex A 8N force acts in positive y-Axis, Negative x-axis the angle will x-Axis is 60° find x-Axis.

↳ 5 - MCQs Just like it only angle and value of force changes.

↳ When two projectile is fired their mass velocity were same find their velocity when they collid.

A) V (B) 2V. (C) $\frac{V}{2}$

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(14) ratio of isotopes
(a) $^{12}_{6}C$ (b) $^{14}_{6}C$ (c) $^{13}_{6}C$ (d) $^{11}_{6}C$

(15) If energy of photon is 5eV and stopping potential is 2V then work function = ?

(16) What is complete equilibrium condition
(a) 1st law of e.c.
(b) 2nd law of e.c.
(c) law of conservation of momentum
(d) both a & b
(e) none

(17) The splitting of heavy nucleus into lighter nucleus is according to

(18) What is correct relation
(a) $mvr = \frac{nh}{2\pi}$
(b) $mvr = \frac{nh}{2}$
(c) $mvr = \frac{nh}{2\pi}$

(19) Time is absolute (a) Newton (b) Galileo (c) Bohr (d) none

(20) Increasing order of electronegativity is ?
(a) Cl, Br, I, F
(b) -

(21) Magnetic field is ?

(22) position is called
(a) Radius vector (b) Displacement
(c) both (a) & (b)

(23) Chip is made up of ?
(a) Carbon (b) Silicon
(c) Both (a) & (b)

(24) If potential difference in a circuit is zero then the value of current is ?

(25)

(26)

(27)

(28)

(29)

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Chemistry

(1) Atomicity of atom is?
(a) No of atoms present
(b) Atomic weight
(c) Mass No (d) Atomic No

(2) The Atomic weight of dimethyl ether is

(3) When alkyl halide reacts with Grignard Reagent then ——— is by-product?
(a) H_2 (b) HX (c) MgX_2 (d) X_2

(4) Which of following is colourless gas?
(a) XeO$_4$ (b) XeF$_4$ ...

(5) Ethyl Alcohol is used for:
(a) Anti-freezing agent
(b) As a fuel
(c) Preservative
(d) All.

(6) Sigma bond is formed by
(a) two Bonding orbitals
(b) two antibonding orbitals
(c) Bonding and bonding orbitals
(d) All.

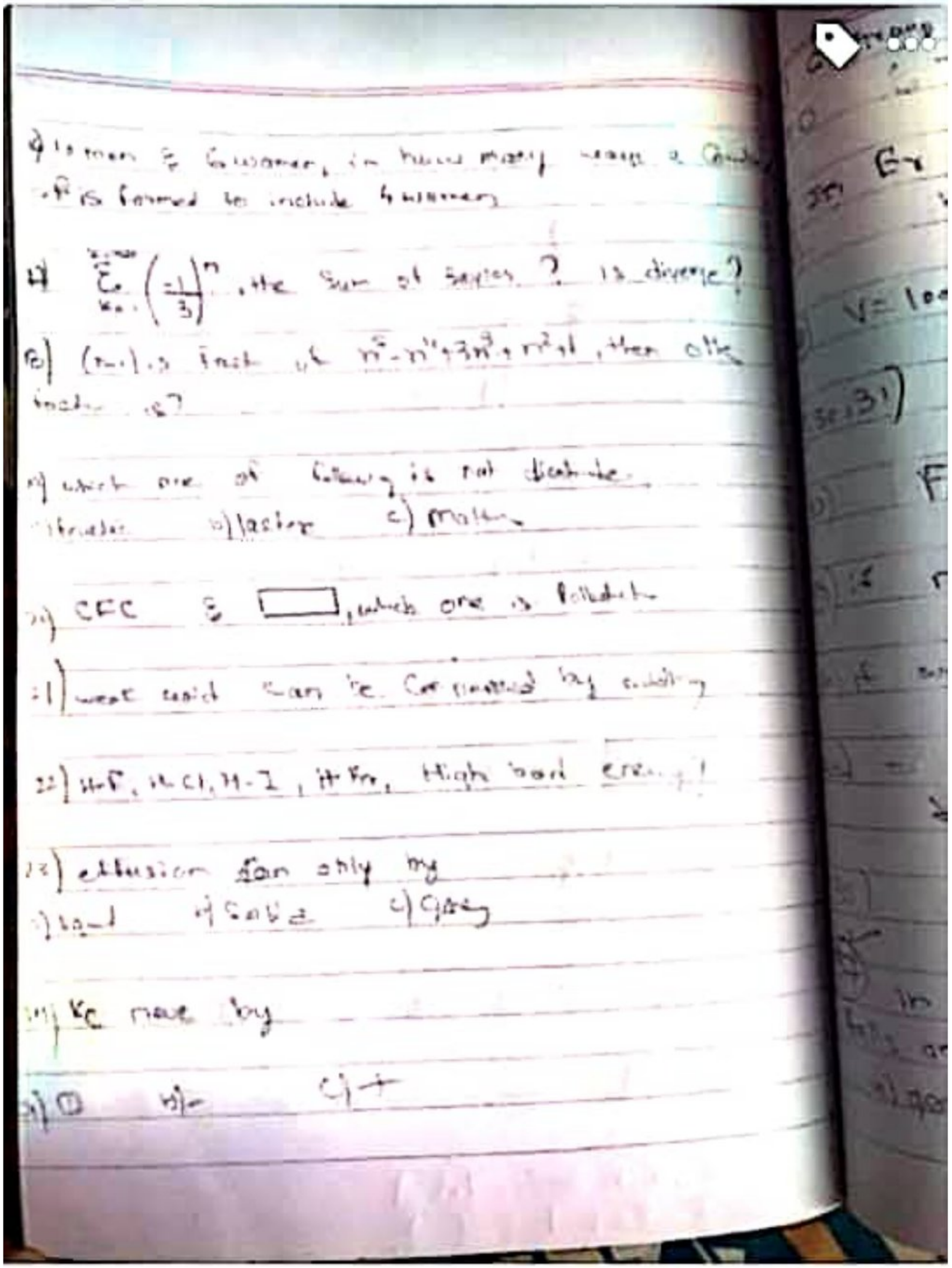
(7). What is not produced by destructive distillation of coal?
(a) coal tar (b) Ammonia
(c) Coke (d) Peat

(8) Triglycerides are:
(a) Lipids (b) Proteins
(c) Monosaccharides
(d) Polysaccharides.

(9)

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(18) Unit of ~~pressure~~ in electric field strength is

a. Pascal $m^2 C^{-1}$ b. $Pa\ m^{-1} C^{-1}$ c. $Pa\ m^{-1} C^{2}$

(19) A coherent source has

a. same ~~use~~ amplitude b. same frequency

c. same phase d. same wavelength

h magnetic field

(20) If the coil is rotating ~~for~~ and flux linking the coil is changed. Then the emf induced is

a. Motional emf b. Transistor emf

c. Both motional and transistor emf

(21) If a body is moving upwards its acceleration is

a. increasing b. decreasing c. remain constant

(22) If a conductor is placed in magnetic field such that its direction direction of B is towards

(22) If a particle is moving with speed V & in direction of south and the magnetic field is out of the page. Then the ~~of~~ force is experienced in direction

a. North b. South c. East d. west

(23) The de-excitation of electrons can occur through

a. Spontaneous absorption b. Stimulated absorption

c. Spontaneous emission d. ~~spontaneous~~ stimulated emision

(24) If a particle ~~X~~ X having A = 219 and Z = 16 is convuted into B having A = 219 and Z = 15 then particle emitted is

a. electron b. proton c. deutron d. neutron

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14
Q) Slope of vertical line

a) undef b) 0 c) 90 d) dont rowbor

(Ans)

15
Q) $y = x^2 + 2x - 3$ was given and $(x = 2 a 5)$ is root then Remainder!

a) Sorry dont remeber options

16
Q) a = 18 b = 24 c = 30 find R (circumcircle radius)

dont remember a) 30 b) dont rember

(Ans)

17
Q) A point lying on yaxis and has 3m distance from x is ?

a) (0, 3) Ans b) (0, 4) c) (3, 0) d) (2, 1)

Q18) If there is a function showing correspondance from A → B then (Ans)

a) one value of A corresponds to one value of B

b) one value A corresponds two value of B

c) two values of A correspond to one value of B

d) dont remember

Q19) If z_1, z_2 are complex numbers and $z_1 = z_2$ then that

a) $z_1^2 = z_2^2$

b) $z_1 z_2 = 0$ if either $z_1 = 0$ or $z_2 = 0$

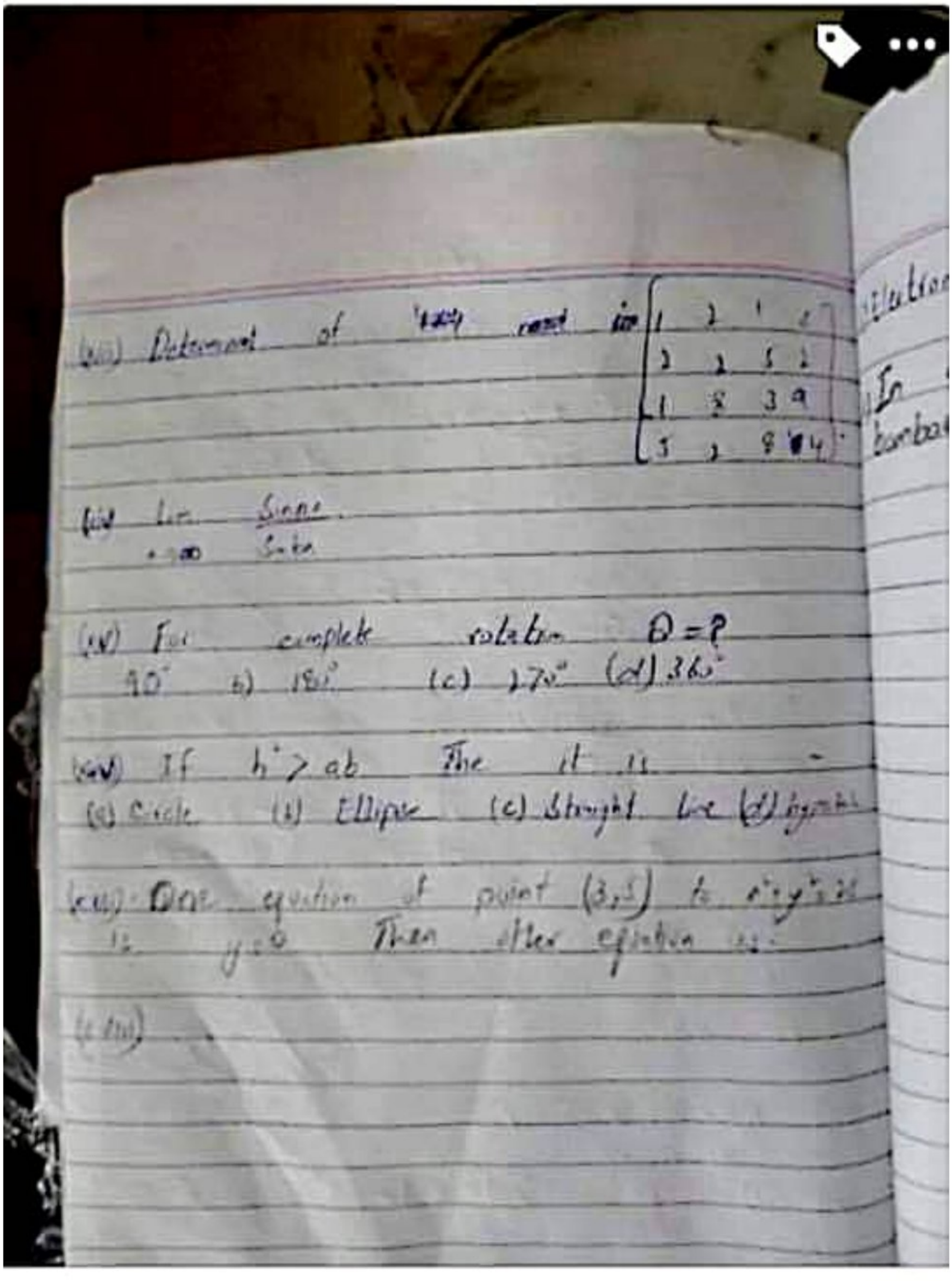
a) both are correct (Ans) b) only a c) only b c) none

Q20) $\sum_{1}^{5} \left(\frac{1}{i}\right)$

a) 200 b) 4000 c) 3600 d) none (Ans)

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(viii) Determinant of [illegible] is

1	2	1	2
3	2	5	2
1	5	3	9
3	2	8	4

(ix) Line Sine.
∞ Sinθ

(x) For complete rotation θ = ?
(a) 90° (b) 180° (c) 270° (d) 360°

(xi) If h² > ab The it is
(a) Circle (b) Ellipse (c) Straight line (d) Hyperbola

(xii) One equation of point (3,5) is origin
is y = 0 Then other equation is

(xiii)

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(10) The distance of point P from line $6x + y + 1 = 0$ is.

(11) If $\overrightarrow{AB} = 5cm$, $\overrightarrow{BC} = 6cm$ and $\alpha = 30^\circ$ then $\overrightarrow{AC} = ?$

(12) The vertices of a triangle are A(0,3), B(1,5), C(3,2) then perimeter of triangle is ——.

(13) By Maclarin series, for $f(x) = e^{-3x}$ then x^9 is equal to

a. $\frac{-(3)^9 e^{-3x}}{9!}$ b. $\frac{(3)^9 e^{-3x}}{9!}$ c. $\frac{e^{-3x}}{8!}$ d. $\frac{(3)^8 e^{-3x}}{8!}$

(14) Solve by cramer rule .... [Matrix was of order: 2x3]

(15) Write the two linear

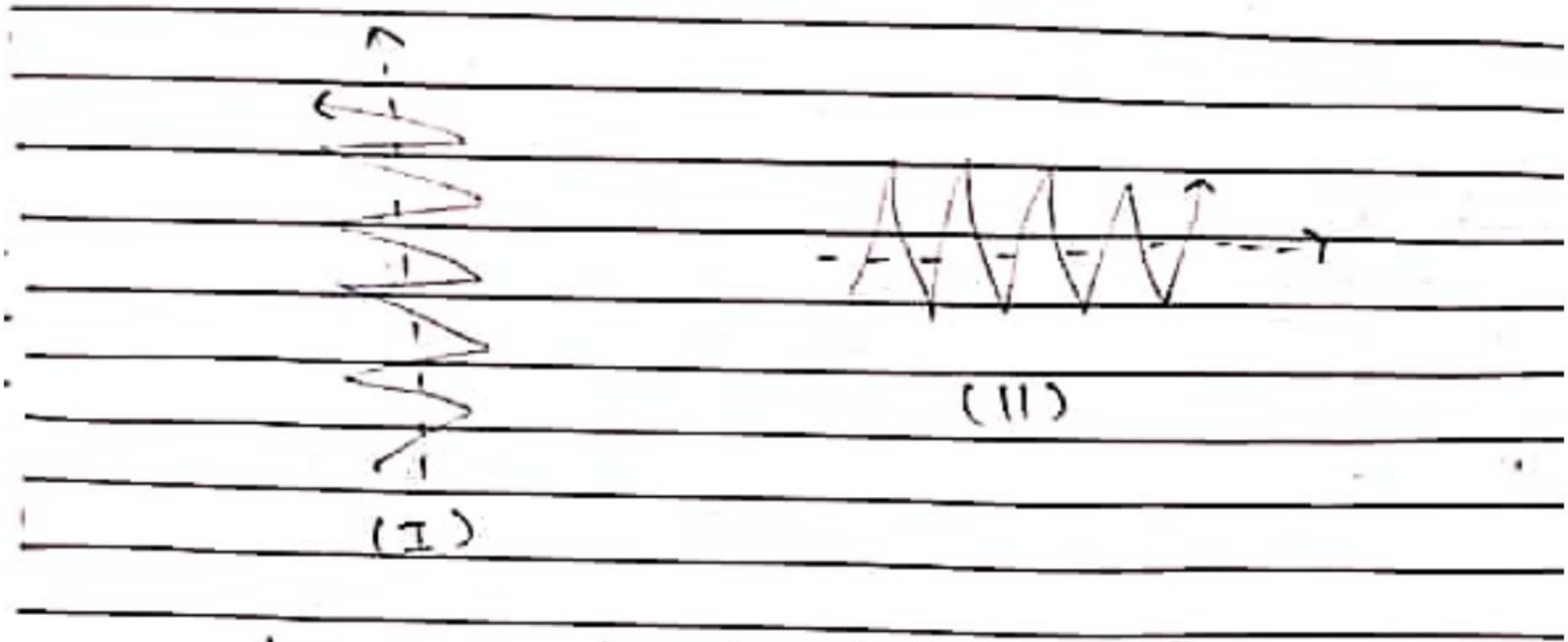
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(25) For a closed organ pipe what will be the frequency is ... .

→ $f = \frac{v n}{4L}$ - Using this formula.

(26) Which of the following wave is longitudinal.



where - - - - → = direction of propagation

——→ = direction of disturbance of medium.

a. I b. II c. Both I and II d. Neither I nor II

(27) If frequency is same and intensities are different such that $I_1 > I_2 > I_3$ then their stopping potentials will be

a. $V_1 > V_2 > V_3$ b. $V_1 < V_2 < V_3$ c. Remain constant

(28) which of the following has same dimension as v^2/r ?

a. acceleration b. momentum c. Force d. All of these

(29) The emf induced due to change in magnetic flux of the coil is.

a. Self Inductance b. Mutual Inductance

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(30) Two body of 1 ton and 2 ton are moving in a circular path. The force that causes the the mass of 1 ton is

a. less than that of 2 ton c. Same as that of 2 ton
b. more than that of 2 ton d. None of these

(31) If frequency of a wave is doubled then its momentum would be ___

(32) If the velocity of a body is increased by 25% then its K.E increases by ___

an

(33) If the K.E increases by 50% then the ~~the~~ increase in work done is ___.

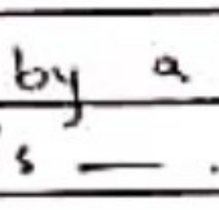
(34) The work done by a body of mass 5 Kg at a height 10m for 10 sec is ___.

(35) The product of 3.056 and 3.15 is 9.6264. The no. of significant figures in it are

a. 2 b. 2 c. 3 d. 4

(36) For the given body, if direction of force is reversed then direction of torque become

to counterclockwise direction



an also reverses b.

a. counter clockwise b. Clock wise c. None of these

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10. The mass of electron is:-
① 9.1×10^{-27} ② 9.1×10^{-31} ③ 1.6×10^{-19}

11. The value of permiability "μ_0" is:-
① $5\pi\times10^{-9}$ Wb/Am ② $4\pi\times10^{-7}$ Wb/Am
③ $8\pi\times10^{-19}$ Wbm/A ④ None

12. The depletion region width increases due to:-
① Transistor ② minority charge carriers
③ majority charge " ④ None.

13. When semi-conductors dopped in ——— then they are p-type:-
① penta-valent ② Trivalent ③ Both.

14. In series combination of resistors which remains constant:-
① Current ② Voltage ③ Resistance ④ Non

15. In SHM, which remains constants:-
① Total energy ② P.E at extreme ③ K.E at mean ④ None.

16. If spring constant is 1000. mass is 1kg and velocity at $x=10$ cm is approx:-
① $132\,ms^{-1}$ ② $91\,ms^{-1}$ ③ $200\,ms^{-1}$ ④ None

17. The specific resistance of Silver is:-
① ? values.

Checked by: _____ Excellent ___ Good ___ Need improvement

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PHYSICS

1. If the length and width of a square are multiplied to give an are 3.004 then what must be the no of significant figures in width?
2. The no of significant figures in 6.000?
3. If the first displacement is 6 and the second is 3 then what can't be their result?
   a) 3 b) 6 c) 2 d) 4
4. If a cart of 6 kg and another with 3 kg collides and then stick with eachother if the speed of 3kg cart was 6ms^{-1} then what was the speed of 6kg cart initially?
5. If a man is standing on a knoll and throws a ball on a wal 4.5m tall 15 m which takes 0.65 seconds to reach then what was the value of x - component at the instant of throwing?
   a) 23 ms^{-1} b) 20 ms^{-1} c) d)

One more question was asked from Forces and motion.

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38) on BJP, n-p-n, the direction of I on emitter

39) $E = mc^2$, $E = \frac{m_0}{\sqrt{1 - \frac{v^2}{c^2}}} c^2$

=) which Covered ? ; ? ; ? both ?

40) I.R region not

a) Hydrogen b) Packing c) Muscle

41) NH_4Cl, no of ionic & Covalent bond

42) Green as Grass & as Red as ____ ?

a) Blood b) Rose

43) [House, Roof, door, Wall] ; Pick one/ more out

44) In x graph, when ~~touch~~ cuts Y axis, it slope =

45) $2.01 + 24.876 = ?$

46 & 47) both from same Significant figures, easy af

overall 9/2 math was easy & Phy was Hard.

one tip for Physics : PTB Puri Samity to Hari ... [illegible]

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→ Everything in universe is ether,

was given by →

1) → Einstein
2) → Quantum Theory
3) → Special theory of Relativity
4) → Planck

→ Variable, like a

→ Dimensions of magnetic field in terms of Joules given

→ $\frac{(x-2)^2}{16} + \frac{(y-3)^2}{25} = 1$

Then vertex

→ an eq given ——— ? what is it

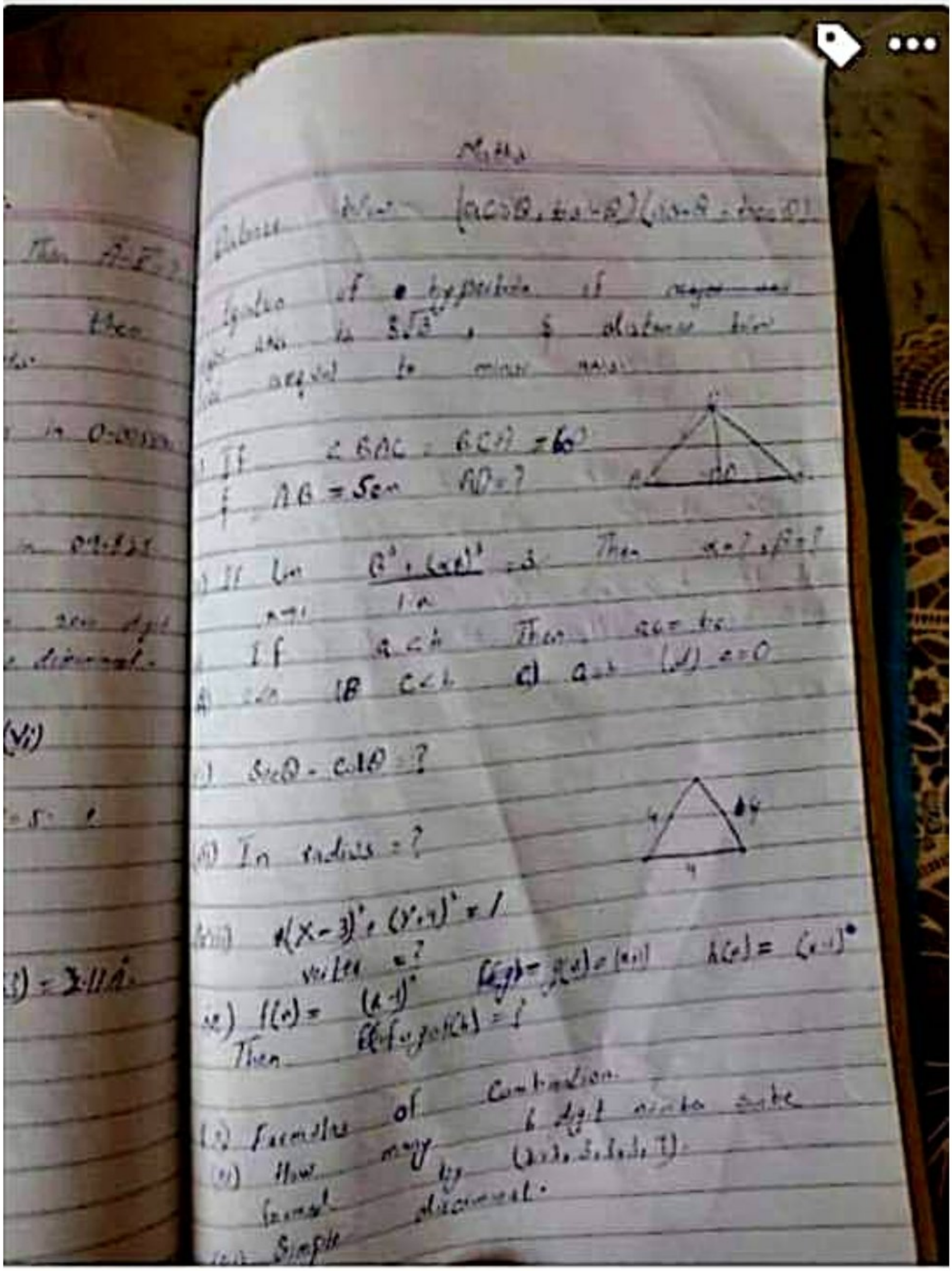
a) ellipse c) parabola
b) hyperbola d) straight

→ which in G.P.:

1) p-q, q-r, r-s
2) p-q
3) p-q, r-s, s-t

i) ii)
ii) i)

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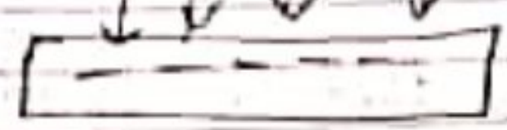
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→ slope of $x=-1$ & slope of $x-1$ then

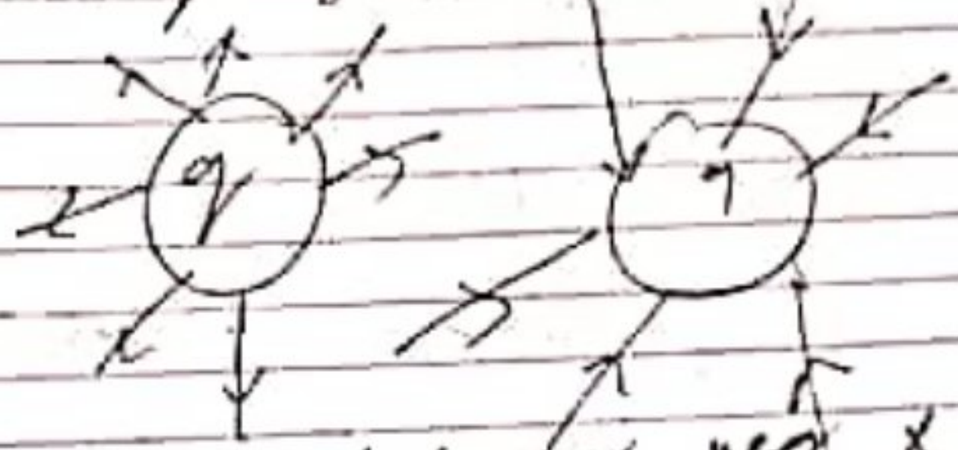
→ unit vector representation

→ [+ + + + +] → it will choose p.E'

→ it will give PEF



→ positive charge show by:-



→ Y axis par & X fix on neg Q=30, Resultant <16 find components.

→ Vertical parallelogram give length of PC

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16) pick odd one out
a) queen b) stern c) alecle d) must
17) 300, 400, 450, 550, ?
18) Analogy [illegible] [illegible] Joy : Emotion
a) snow : winter b) Trees : Jungle c) Apple : Fruit
19) Meaning of abdicate ?
20) Ahmed is facing North. He walks 5 km to right. Then he turns left and walks 3 km. He again turns left and walks 5 km ? To which side he faces now?
21) Coding and decoding question was present.
22) How many terms are there in $(a+b)^5$?
23) question from matrices for multiplication was given.
24) $\begin{bmatrix} -3 & 0 & 0 \\ 0 & 9 & 0 \\ 0 & 0 & 5 \end{bmatrix}$ Inverse = ?
25) If A and B are non-empty sets then which is incorrect ?
a) $A \cap B = A$ b) $A \cup B = \Phi$
26) Associative property is applicable on ?
a) 2X2 matrices b) rational numbers c) All of these
27) $\int(x,y)$ is possible through ?
a) product rule b) chain rule c) none of these
28) If $f(x) = x^3$ and $g(x) = (ax+b)$ then [illegible] $f\,g(x) = ?$
29) If coin is tossed 4 times, then what is the probability that tail doesn't occur?
30) If 2, 5, 8 ... be in progression, find its 8th term?
31) $\sin 4x = ?$
32) $\frac{\sin 4x - \cos 4x}{\sin 4x + \cos 4x} = ?$ in terms of tan θ & cot θ.
33) Spelling mistake ?
a) excusive b) exsessive c) excessive d) eccessive
34) Spelling mistake
a) necesity b) necessity c) nesesity d) nesessity

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M T W T F S

33. One question was from mutual induction.

34. The ionization energy of hydrogen is:-

① 13.6eV.

35. When electron jumps from outer to 5^{th} orbit then spectral line is:-

① Lyman ② Balmer ③ P-fund ④ None

36. If electron jumps from 6^{th} to second orbit then increase in radius is:-

① 90% ② 20% ③ 30%

37. (Chem) The temperature zones in rotatory kilns is:-

① 5 ② 4 ③ 6 ④ None

Math

① If $f(x) = x^2+1$, $g(x) = 5x+1$ then $f(g(x)) = ?$

② Derivative of $\frac{1+x\frac{1}{x}}{1-\frac{1}{x}}$ w.r.t x.

③ Min. value of $\sin x + \cos x$.

④ Relative max. extrema of $\sin x - \operatorname{cosec} x$.

⑤ $\int_0^2 x^2+1 = ?$

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40. If A is given & a and b sides are given then cosx = ?

41. 

then incircle = ? inradius

42. The circle cannot be inscribed in :-
① Square ② Parallelogram ③ △
④ rectangle

43. If sum of interior angle of polygon = sum of exterior angle then no. of sides of polygon are :- ?
① 4 ② 6 ③ 8 ④ None

Best of Luck

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Date:

M T W T F S

Physics

1. Which one is closest to your hight:-
   ① 0.01cm ② 2cm ③ 4cm.
2. 1 fem to =
   ① 10^{-15} ② 10^{-9} ③ 10^{-6} ④. None
3. If A=12, C=B, B=5. Then θ=? and $\vec{C} = \vec{A} + \vec{B}$ -
   ① 90° ② 0° ③ 60° ④ 15°
4. The half life of Iodine:-
   ① 8 days ② 8 hours ③ 15 days
5. 1 rad = how may degrees:-
   ① 57.196° ② 57.296° ③ 58.196°
6. Which one is least ionized but high penetrating power?
   ① α ② β ③ γ ④ None
7. If $^{235}_{95}U \rightarrow ^{235}_{88}U$ then.
   ① α-particle is omitted ② 2 electrons omitted
   ③ 2-protons omitted ④ None.
8. $\lambda T = 0.693$ -
   If half life of element is 4 minutes then
9. $\frac{3}{4}$ th is decayed in:-
   ① 4min ② 6 min ③ 8 min ④ 10min.

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NET II - MCQs - [11 Aug morning]

1- Max value of $f(x) = \sin 3x + \sin 7x$ (math)

2- If complex no and conjugate subtracted then ans is always (math)

3- $\lim_{n \to \infty} \frac{\sin x}{x} =$ (math)

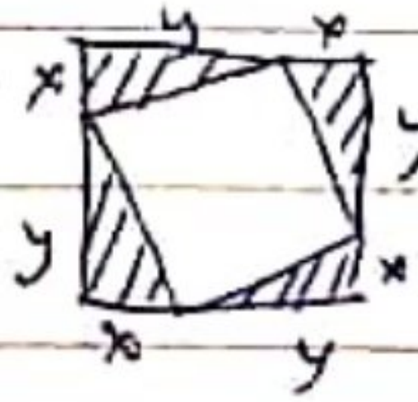
4- 10000 99 sig figures - (Chem Bhy)

5- $\tan(90+A)\sin(90+A) + \cos(90+A)$ is equal do (math) (some eqns in options)

6- 1, 2, 4, 8, 7, 26, 10 (next term) - (CC)

7- 13, 52, 117, 208 (// //) - (CC)

8- In how many ways can 6 men & 5 women be seated such that they occupy alternate seats (math)

9- 

Find area of shaded (math)

10- $\sum_{n=1}^{\infty} 2000\left(\frac{1}{3}\right)^n$ - 2 options confusing (math)
a) series is convergent
b) Sum is less than 2000

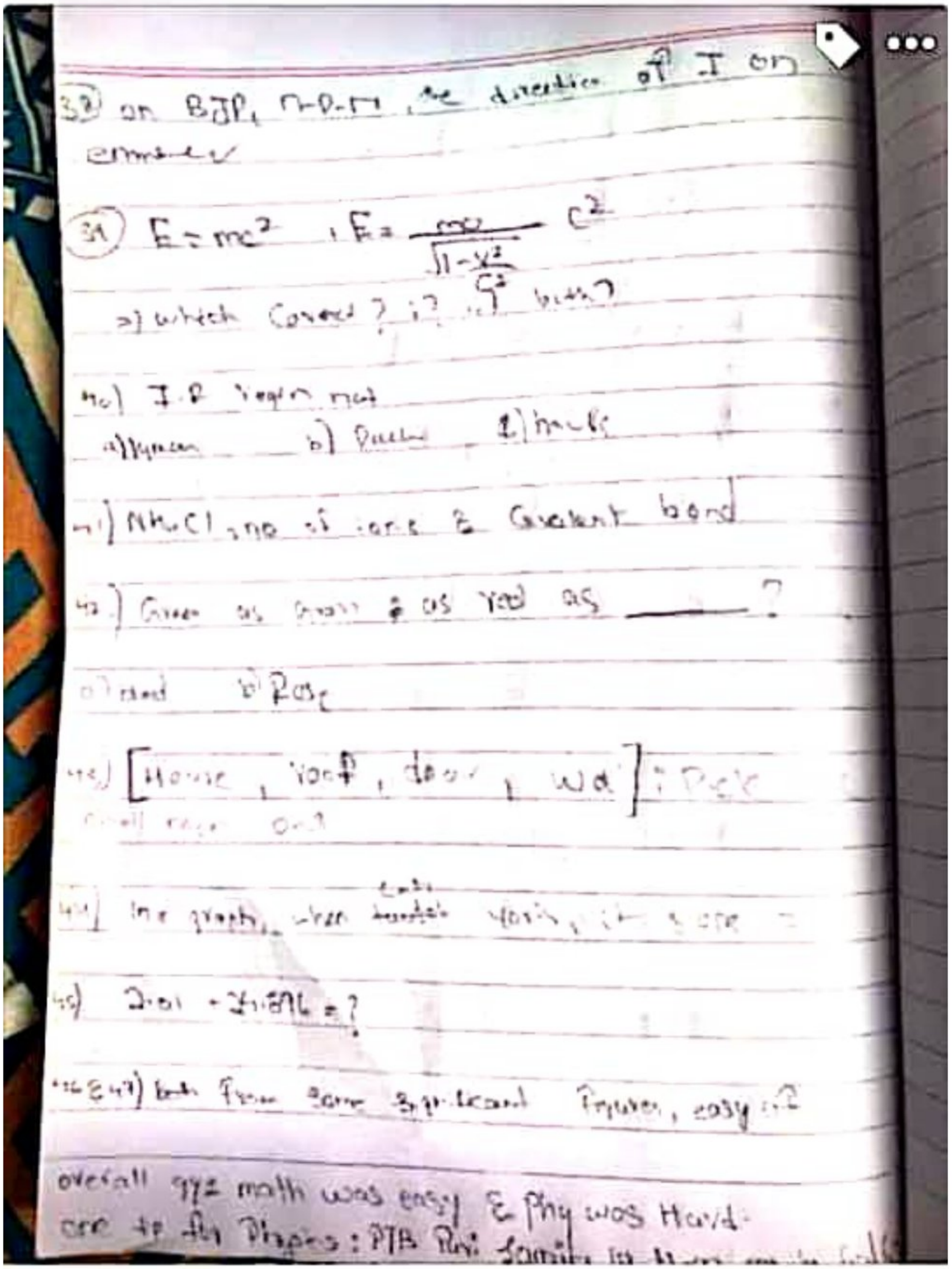
11- $x^3 + y^4 =$ (some number) is Symmetric wrt to (math)

12- Distance of a point to a line (values forgot) (math)

13- 
angle is 0.5° & distance is 3860000 km find diameter of moon. (math)

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25) a gramp gas element is

a) O b) Si c) □

26) In Ex may not

a) b) + c) O

28) V = 1000 , b C = □ , then energy stored?

29, 30, 31) $R = \rho \frac{L}{A}$ (isi ko ghuma kar 3 aa.)

32) F = ILB (numerical)

33) If no of turn of solenoid increase, the B?

34) If area of Solid is increased, then B = ?

35) = $X = X_0 \sin \pi (100 - 6\pi)$

then Velocity?

36) E = NBωab (generator D.C) then E =

37) In n-type on Photo-voltaic Cell, when light falls on n-region the elect.-hole is

a) generated b) Scattered c) transfer

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21 - June Evening

→ Ans Vertical given of Parallelogram formed by one (A)(a)

→ Selenium is an — conductor, semiconductor, insulator. -

→ (vertical given) what is right angle with

→ Domain of $\cot^{-1}x$ = ? → obtuseness synonym

→ $\frac{dy}{dx} = \sin h^{-1}x$

→ what is $\frac{dy}{dx}$? Rate of y with x ?
" " x with y ?

→ Lagrange denotion → 'scrambling'

→ $\sin^{-1}\left[\tan\left[\frac{1}{\sqrt{3}}\right]\right]$ → prejudice meaning

→ which is not mutually exclusive → ellipse, cube, circle, sphere } odd, out

→ 1) head, tail from coin → Balmar series
2) 3, 3, 4 from dice → Pfund series
3) pass in maths & physics
4) strongly wind

→ what is Unitary matrix

→ 4 from mutual inductance

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a.m.

↳ A railway moves on track of 1000 ft. mass
its velocity changes from 150 m/s to 100 m/s
olday in 5 sec. . Find Retarding acceleration.
work.
law ↳ Torque in circle = ?
ries ↳ escape velocity of earth is ?
↳ Which of the following remains
constant in S.H.M. @ Fuel
② T.P ③ K.E, P.E and T.E

↳ The Root Mean Square of gas ..... Speed
is inversly to → ?
↳ In Sample pond- If & increase the
which one is work.
A) Fuel Increase (B) T.P decrease (C) width is
reduced. (D) None.
↳ A capacitor have Q and C then t
RC = ?
A) 0.32 (B) 0.63 . . . .
↳ A generator have increases th work
I) No of coil increase (II) No of commutator increase
will then (a) I (b) II (c) Both (d) Neither.
↳ . Two ~~equation~~ MCQs on theis formula
force ↳ The seventh Radiation in Uran Series = ?
↳ Which one is not Radioactive .
mass A) Radium ② Uranium ③ Thorium ④ platinum.
locity

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