

ூலங்கையின் உயர்தர கணித விஞ்ஞான

பிரிவிற்கான இணையதளம்

SCIENCE EAGLE www.scienceeagle.com



- C.Maths
- Physics
- Chemistry

+ more





தொண்டைமானாறு வெளிக்கள நிலையம் நடாத்தும் இரண்டாம் தவணைப் பரீட்சை - 2021

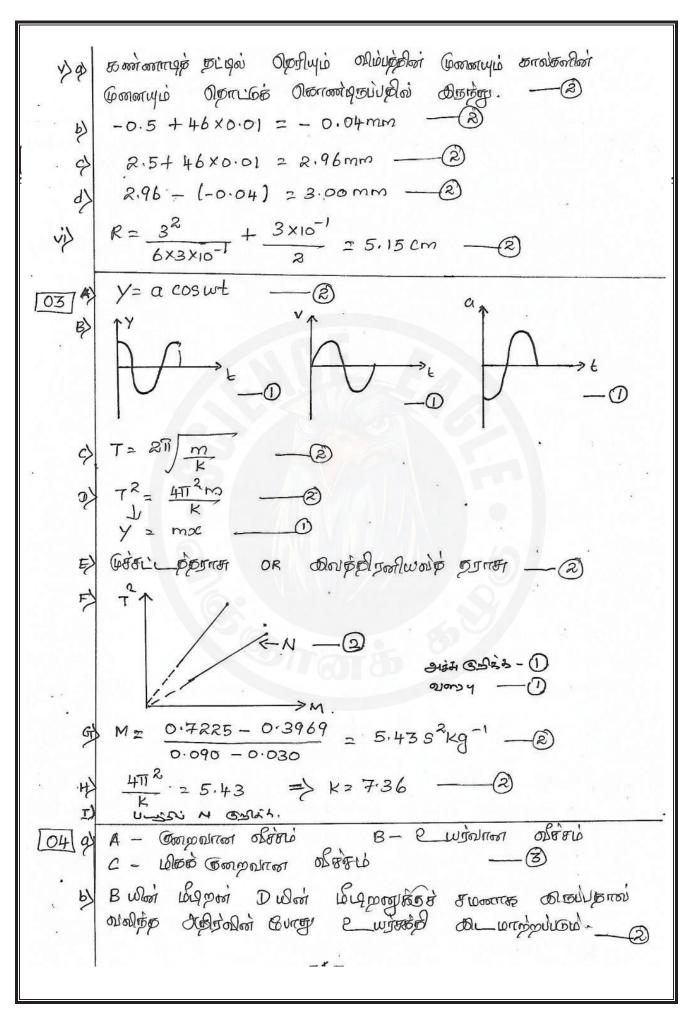
Conducted by Field Work Centre, Thondaimanaru.

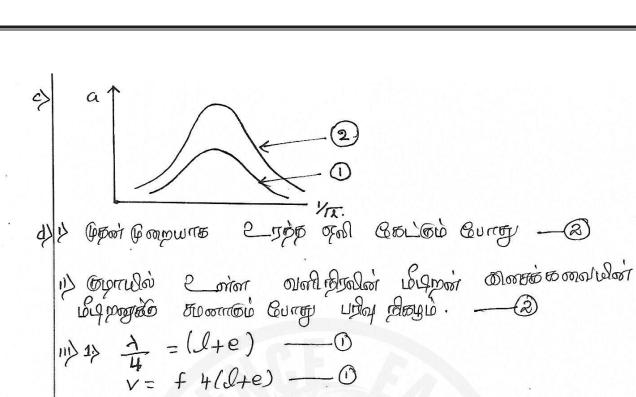
2nd Term Examination - 2021

Grade :- 12 (2022) Physics Marking scheme

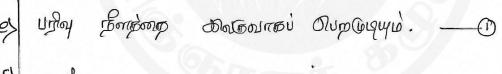
168 - II JONOUNE BL'COME OROMESEN [0] ப் சமனாக சிரையும். — ஏரின்னில் நீரமானியின் திணிவு மாற்றமடைய - alaimal. ___ உறுதியான மிறப்பிற்கு கமவுறைப்பு பிறாழிற்கம் புள்ளிக்குக் கிகழ 4 อป็นใช้บัง สาของเข้า ผิงเองเข้า ผิงเองเชียน์. a) if (m+M)g = (v+AJ)g - 2if $J = (\frac{1}{AB})m + (\frac{M}{AB} - \frac{v}{A}) - 2$ y = m x +c

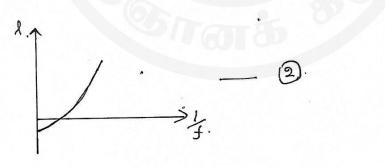
Fright wind - m _0 Fright wind - l _0 $M = \frac{(9.4 - 4.6) \times 10^{-2}}{20 \times 10^{-3}} = 2.4 \text{ m/sg}^{-1}$ " * @ किंपातियां श्री श्री किंपातियां किंपा $m = \frac{1}{AP}$ $P = \frac{1}{2.4 \times 5 \times 10^{-4}} \times 833 \text{ kgm}^3 = 8$ a = 2x cos30' x 2 J3x ---Obing Obrahovy Obogram. $R = \frac{a^2}{6h} + \frac{h}{2} \qquad (3)$ 0.01 mm











USS-II-B ANDERSON 01) (a) (i) P+1/2 PV + h Pq = Lonyslan (2)(11) 200 2/5 GANLE UNWEBONT (3)OBBB gaznyny Vnus Maia Bone wing unus (III) [P] = MI'T? } Proof (IV) $A_1V_1 = A_2V_2$ OBBAS GERNING MWM -(p) (i) VPE = V } Dooris Amoorivanis -VAP = VAE + VEP 0 + 1 (11) AN = ALV2 24V = 4 V2 V1 = 2V -(III) Alunosission Sijo u Esturoi 2006 20 - P. God v Symin Dossis - Pr Ber - 2V Monorisistori Good, Si vopamai Guorgalum 9 izaing P2+ 1/2 P(24)2 = P1+1/2 PV2 P1-P2 = 3/ PV2 P= FA > F= PA ----(P,-P2) A= 3 PV Ao $F = \frac{3}{3} P v^2 A_0$

(1) Monomio co-602-na 200000 como F=mg F=mg = 3 PVAO - (1) $\sqrt{1} = \frac{2m9}{3PA0} = \frac{2\times3.6\times10^5\times10}{3\times1.2\times200} = 10^{4}$ (1) V = 100 ms 1 10000 = 0+2×10×5 S = 500m -(VI)(a) 2 wrigo 2 2 mo = 36 x 10 N ______ (b) merció f= ma TF (050 = mg-1) Don domine 1) Jm = 10000 = 5 10 = tan (5) ______ (C) (i) Monorisson Dysoonsunon Diquir Oslurai (11). *, y obsi Eurogasunoin = = 5 Javiuq

Px = Py + 1/2 Pa u²

Px - Py = 1/2 Pa u²

L(*) (iii) Ben souched Doing Avon Pa= Py+hBg _______ $h = \frac{P_x - P_y}{P_{09}}$ $U^2 = \frac{2 \times 20 \times 10^2 \times 12000 \times 10^9}{20000 \times 10^9}$

2)(a)ii) I= 1/2 MR2 = 1 ×10 × 0.15 × 0.15 = 0.1125 kgm2 ____ (ii) T=Id=F.Y 0.1125 a = 20 x0.15 x = 30 rad 52 w=wo+at = 0 + 80 ×10 = 266.67 rad [___ (iii) T=Id=f. Y 0.1125 Q=1X0.15 (1) d = 4 rad 32 -W=Wn+ xt $0 = \frac{300}{3} - \frac{4}{3}t$ L = 200 Sec -(iii) Blashooma Our ive Olonga Dit = / Iw + /mv (IV) 2 privaries Olybra Obing Em = nf ____ (v) $fn_1 = \chi T \omega^2$ $f = \frac{\Sigma w^2}{2N}$ (VI) Dongumong Josephile Bille Gung John Agl = W -0 HADrong Gwestoney 2000 Algoring Ednoon = 2711, --- $\theta = (\overline{m_1 + m_5}) f \Rightarrow 5 \pi U' = (\overline{m + n}) f$

$$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$$

$$\frac{5\lambda^2}{2} = \lambda^2 = \frac{21}{5} - \frac{1}{1}$$

Dongumi Brus doonna Doda

$$f_{2} = \frac{1}{\lambda} \sqrt{\frac{T}{m}}$$

$$f_{n} = \frac{2n+1}{21} \sqrt{\frac{T}{m}}$$

$$V_2 \neq \lambda = 440 \times 1$$

$$= 440 \text{m}^{\frac{1}{2}} \qquad \boxed{0}$$
 $V_2 \neq \lambda = 440 \text{m}^{\frac{1}{2}} \qquad \boxed{0}$

$$V_2 \neq \lambda = 440 \times 1 \qquad \boxed{0}$$

$$V_2 \neq \lambda = 440 \times 1 \qquad \boxed{0}$$

$$V_2 \neq \lambda = 440 \times 1 \qquad \boxed{0}$$

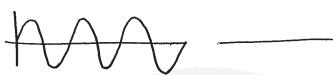
$$(V) f = \frac{3}{2L} \sqrt{\frac{r}{m}} - 0$$

$$= \frac{3}{2L} \sqrt{\frac{r}{p\pi y^{2}}} - 0$$

$$= \frac{3x^{2}}{2L} \sqrt{\frac{r}{p\pi y^{2}}} - 0$$

= 4 × 440 = 1760H7 -----

(c) ij



(11)



(III) Dýró/2004 Agarmali

30

2

Part - I

(2x50 = 100 marks)



ூலங்கையின் உயர்தர கணித விஞ்ஞான

பிரிவிற்கான இணையதளம்

SCIENCE EAGLE www.scienceeagle.com

✓ t.m e / Science Eagle ▶ YouTube / Science Eagle f 💆 🔘 /S cience Eagle S L





- C.Maths
- Physics
- Chemistry
 - + more