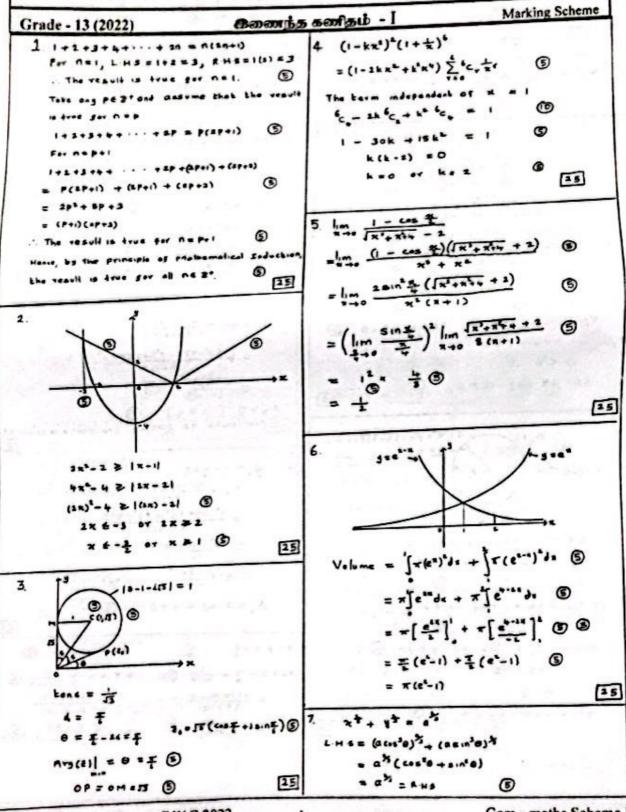
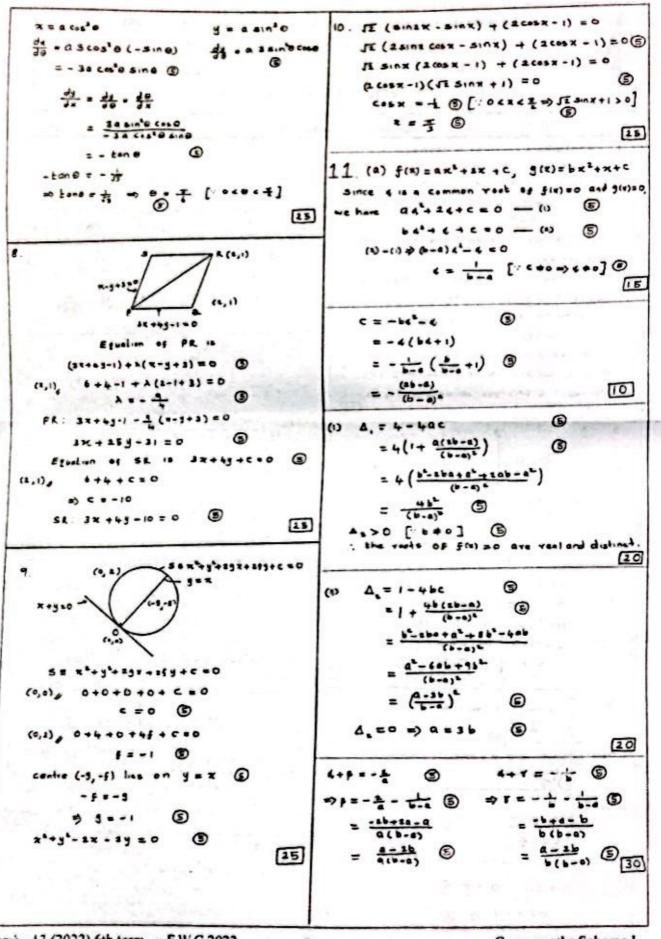


தொண்டைமானாறு வெளிக்கள நிலையம் நடாக்கும் ஆறாம் தவகைப் பரீட்சை - 2022 Field Work Centre, Thondaimanaru

6th Term Examination - 2022



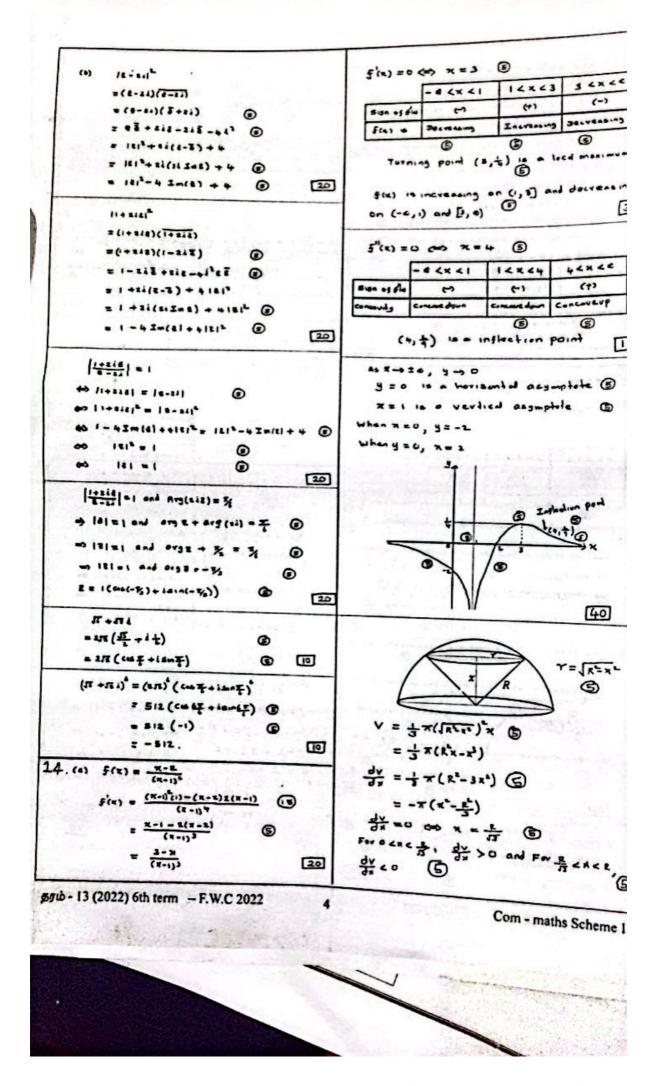


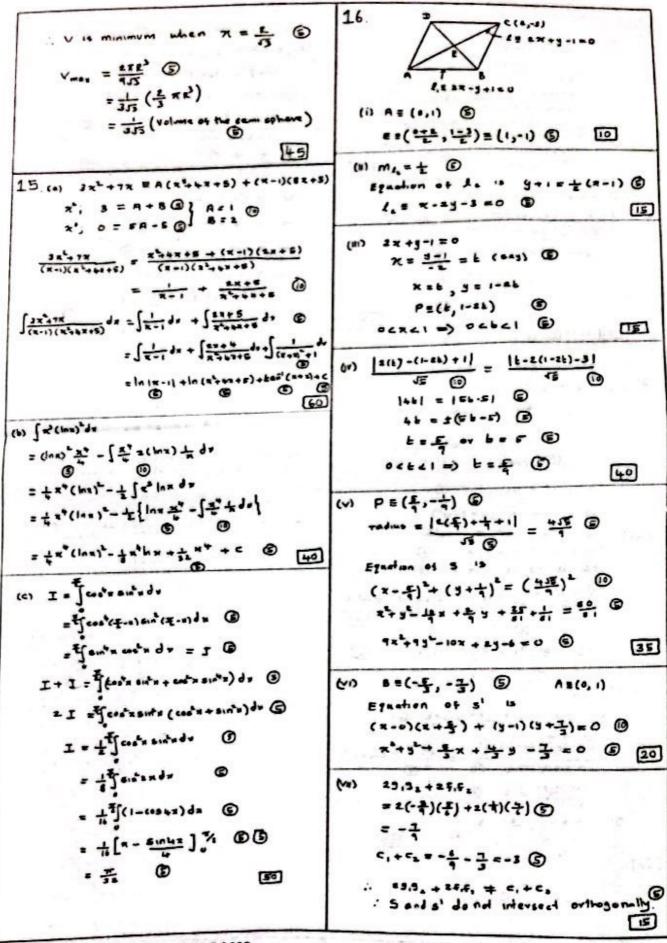
தரம் - 13 (2022) 6th term - F,W.C 2022

2

Com - maths Scheme I

```
(b) h(x) = 4x3+ bx++cx+1
      =) h(=) =0@and h(-1) =0
      0+00 0 00 +2 =0
                       - b = - +
                                                                                                                                                               I'm $u+ = I'm [$ - 1 2(00+) + 3 mentern)
                                                                                                                                                                                             = hm [+ - 1/6++) + + 1 12 (104)(104)] = 0
                                                                                                                                                               Infinde series Eur des and correspo @
                                                                                                                                                                                                                                                                                                           10
                           0 = a + c = 1 a = - 1 @
                                                                                                                                                                W+ = {+(+++)}(-1)
                                                                                                                                         35
                                                                                                                                                                 Ew. = E(m: -.. + m ...) @
  12. (4)
                                                                                                                                                                                      = $\(\frac{1}{(ar-1)(ar+1)} + 2r(ar+1)\) \(\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\ov
                                                                                                                                   10
                                                                                                                                       10
                                                                                                                                                                                      = 1 - 1 n(n+1)(n+2) 8
                                                                                                                                                           13 (a) A = ( ) B = ( ) , c = ( )
         Number of selection that do not include studies =
                                                                                                                                                                              (: ...)(; :)°=(::)
                                                                                                     CLH = 10, 8
                                           م مسمعه 10 سطو = 'و و و و و و و ه
                                                                                                                                             30
           (v) No of solution of 3 male and 3 female that do not conclude beamers as a confer &
                                                                                                                                                                           = ( " 5 6)
                              estable students as and a female that do not
                                                                                                                                                                          = + ( - · · )
                                                                                                                                                                        C(P+21) = 3C + I
                                                                                                                                                                Ashmay orman of male = 2 2 - 2 2 - 2 2 - 2 2
                                                                                                                                                                         P+21 = 31 +c"
                                                                                                                                                                               $ ('. ',)+ ÷ ('. '.)
                = 1(14-1) - $ (4-1)A(4+1) - 1(14-1) + $ A(4+1)(4+1) &
                                                                                                                                                                                · +(" ·..) 6
                                                                                                                                                                                                                                                                                                50
                 = (27-)(84-1) + 47(741)
                                                                                                                                           15
      தரம் - 13 (2022) 6th term - F.W.C 2022
                                                                                                                                                        3
                                                                                                                                                                                                                                               Com + maths Scheme 1
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```
17 (a) SINT COST
      = 2 SIAN COSSN
        ASINSK COST
        SIN41 + SIN(-11) (0)
         26m27 C+614 - Sm27
                                 20
Put X = 15 . 3
  SINIE" COS 15" - 2 COS 30"-1 (5)
                       ®
                                15
= 2 4 cosex + y = 2 cosex - 1
=> 2(1-g) cosex = 8+1
      bul |cosex| 61 @
    => (9+1) + + (1-4)2
   => y +=y+1 € 4 (1-24+94)
    4 3y -10y+3 = 0
   =) (3y-1)(y-3)>0 ()
  $ 9 4 4 or 4 > 3 @
   BINDE COR THE date not lie beloven fant 3
                                35
  BINA - SING - BINC
                                5
Let sing = sing = sinc = k
 SING - Kath - ath 6
  asin (Big) cos (Big)
    2 sin & cos & 10
   cos (0-5) = 2
                           25
```

```
(c) tan'(±) + tan'(±) = tan'(2 sin'x)

Let x = tan'(±), p = tan'(±)

a + p = tan'(2 sin'x)

=) tan(4 + p) = 2 sin'x  

=) tan(4 + ban p = 2 sin'x  

=) tan(
```