MARKING SCHEME

FORM II MATHEMATICS

END TERM 1

|  |  |
| --- | --- |
|  | =  =  = 5 |
|  | Distance = 56 X  = 140 KM  2 |
|  | + ½ M=  when y = 0, 3=1,    (,0)    when  = 0, 2=1,  3 |
|  | 0.1555 + 0.2809  2 + 0.1175  = 0.1555 + 0.5618 + 0.1175  = 0.8348  = 0.835  2 |
|  | X []    =  =  = 31X 21  = 6 3 |
|  | Area = ½ X 7.5 X  X 2    = 34.5 cm2  2 |
|  | Let daughter’s age be y yrs  Fathers age is 3y yrs  3y+12 = 2(y+ 12)  = 2y + 24  y = 24-12  = 12  Fathers age is 12  3 = 36 yrs  3 |
|  | |  |  | | --- | --- | | No. | Log | | 37  372  0.168  75.63  7.4268 x 10-1  0.74268 | 1.5682  1.5682  2  +  3.1364  .2253  1.3617  1.8787–  .4830 x ¼  .8708        4 | |
|  | D =  V =  = 0.009 m3 = 0.009 X 100000  = 9000 cm3  X – section area = 12 x 15 – 12 x10  = 180 – 120  = 60 cm2  Volume = x – section area x length  Length of pipe =  =150 cm  =1.5 m  4 |
|  | y =  + 5  M1 = M2 =  y =  + c ═ c = 5- -2  = 4  or  y =  or 5y + 2 = 21  4 |
|  | ………………… (i)  ………………… (ii)  ………………….(i) x 2  + ………………..(ii) x 3      =  = 2  From equation (i)  2 x 2 + 3y =1  3y = 1 – 4  *y =*  = -1  4 |
|  | M. P x  = 3150  M. P =  = 3500/=  2 |
|  | 3.  10  37.1717…  100  3717.1717…  10 -10  3717.1717-37.1717  990 = 3680  =  =  = 3  3 |
|  | Days Huts People  30 5 7  27 9 ?  No. of day decrease, workers increase in the ratio  30:27  No. of huts increase, workers increase in the ratio  9:5  People required =  = 14  3 |
|  | 6  = 30  Angle of triangle ata the centere of polygon  =  Number of sides =  = 12  3 |
|  | CN = 4.3 CM  B1  AB = 8 CM.  Area of  = ½  = 20 cm2 A1  5 |
|  | * 1. + 4  |  |  |  |  | | --- | --- | --- | --- | |  | -2 | 0 | 2 | | y | **7** | 4 | **1** |  |  |  |  |  | | --- | --- | --- | --- | |  | -2 | 0 | 2 | | y | **-7** | -3 | **1** |       All 4 – 3  3 – 2  2 – 1  3 |
|  | Area of ceiling (10x7) = 70 m2 B2  Area of walls (7 x 4)2 = 56 m2 B2  Area of walls (10 x 4)2 = 80 m2 B2  Total surface area = 70 +56 + 80 = 206 m2 B2  Cost of painting = 206 x 200 M1  = 41,200 A1  10 |
|  | 1. (i) PR =11.3 x 10 = 113 M M1   (ii) PR = 11.3 X10 = 113M B1  Bearings 067 1  (iii) SR = 10.5 x10 = 105 M  M1  Bearings 180 A1  5 |
|  |  |
|  | Area P = ½ x 120 x 70 = 4200 m2 M1  Q = ½ x 80 (75+40)=40x115  4600 m2 M1  R = ½ x 80 x 25 = 1000 m2  M1  S = ½ x 120 x80 = 4800 m2  M1  T = ½ x 60 (80 +50)= 30 x130  3900 m2 M1  V = ½ x 100 x 50 = 2500 m2 M1  Total Area = 4200+4600+1000+4800+3900+2500 = 21 000 m2 A1    =  = 2.1 ha A1  10 |