**FORM 4 MARKING SCHEME PAPER 2**

**END OF TERM 1 2021**

|  |  |  |
| --- | --- | --- |
|  | | for  for  for |
| 1. Actual area   = ½̸  Limits  Max area ½  Min area ½  A.E. A -  = | | for  for ½  for |
| C:\Users\user\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\img20210904_15340908.jpg  BD =  = 0.942  ADB =  = 70.39 | | for  for  for |
| = | | for  for  for |
| 1. (a) (1+ x) 7 | | for  for  for |
| 16 =      P =  P = | | for 16 =  for  correct value of P. |
|  | | for  for  for  for |
|  | | for  for    for |
| 1. (a) | | for    for  for    for |
| n = | | for    for |
|  | | for competing the square  for  for |
| (ii)= 1)d  =  = 2 ½ (  = 2100 | | for    for  for    for |
| D = | | for  for    for |
|  | | for  for  for |
| 1. Area   = 26  S= 13  A =  C:\Users\user\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\img20210904_18465184.jpg  ½  =  = | | for  Correct Area  for  for |
| 1. .   = | | for  for  for |
| 1. B and passes and not prefect     (ii) G and prefect and pass    (iii) B or G  B NP passes or G NP passes  = +  =  = | | for  for  for  for  for  for +  for  for  for |
|  | | |
| C:\Users\user\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\img20210904_19215270.jpg | | |
| 1. (a) (i)   =  (ii)  =    P  (b)      (ii)Expressing RT in two ways  RT = RS + ST  =    =  = -  = | | for  for  for  for  for  for  for  for  for  for |
| C:\Users\user\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\img20210904_20010428.jpg | | |
| 1. G   (b)  (c)EM and EFGH  EM projection = EG  C:\Users\user\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\img20210904_20121928.jpg  Tan  Q = 36.2  C:\Users\user\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\img20210904_20121928.jpg  Tan  Q = 36.87 | | for  for  for  for  for  for  for  for  for  for |
| 1. Taxable income   = 35600 + 3200  = 38800   1. 1st 9400   Next 8600  Next 8600  Next 9000  Next 3200    Shs  (b) Basic salary = taxable income – allowances  = 38800 – 8000  Sacco =  Net salary = T.1 – (PAYE + Sacco | | for  for  for  for  for  for  for  for  for  for |
| |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Mass |  |  |  | - |  |  |  |  | | 0 – 9 | 4.5 | 3 | 13.5 |  |  |  | 20.25 | 60.73 | | 10 – 19 | 14.5 | 7 | 101.5 |  |  |  | 210.25 | 1471.75 | | 20 – 29 | 24.5 | 8 | 196 |  |  |  | 600.25 | 4802 | | 30 – 39 | 34.5 | 9 | 310.5 |  |  |  | 1190.25 | 10712.25 | | 40 – 49 | 44.5 | 12 | 534 |  |  |  | 1980.25 | 23763 | | 50 – 59 | 54.5 | 18 | 981 |  |  |  | 2970.25 | 53464.5 | | 60 – 69 | 64.5 | 25 | 1612.5 |  |  |  | 4160.25 | 104006.25 | | 70 – 79 | 74.5 | 10 | 745 |  |  |  | 5550.25 | 55502.5 | | 80 – 89 | 84.5 | 6 | 507 |  |  |  | 7140.25 | 42841.5 | | 90 – 99 | 94.5 | 2 | 189 |  |  |  | 8930.25 | 17860.5 | |  |  | 100 | 5190 |  |  |  |  |  | | | |
| 1. Modal class   = 60 – 69   1. (i) Mean =   (ii) standard deviation    =  = 3144.86 – 2696.61  =    =21.17 | for  for  for  for  for  for  for | |
| 1. (d) | for  for  for  for  for  coordinates of  for  for  for  for | |
| C:\Users\user\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\img20210905_11484768.jpg | | |