

عناصر الإجابة و سلم التنقيط

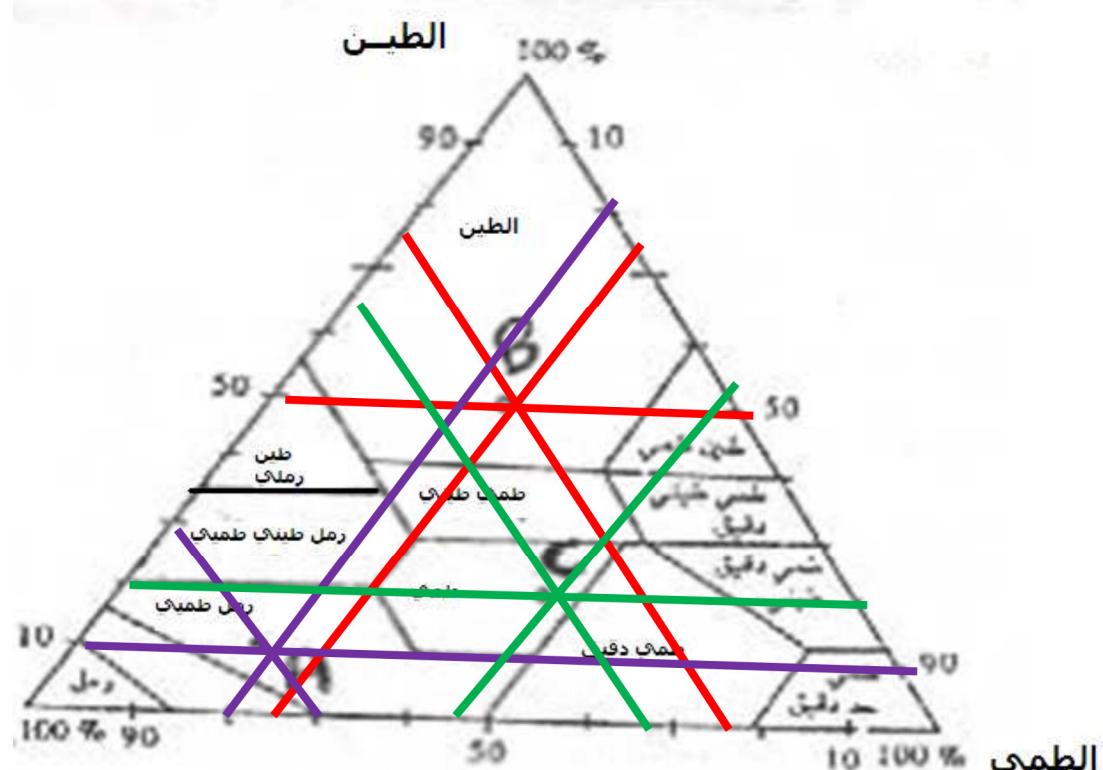
| النقطة | الجواب | تمرين رقم 1 : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|--|---------|------|-------------|---|----|---|----|-----|------|----|-------------|---------------------------|-----|------|-------|-----|---|---|----|-----|------|----|----|---|----|-----|------|------|-----|---|-----|------|-------|----|-----|---|---|-----|------|----|----|---|-----|------|-------|----|-----|---|-----|------|-------|-----|---|--|------|--|--|--|--|
| 0.5 | | $\text{F ; d ; D} \rightarrow \text{اعطاء صيغ عدد أفراد النوع}$ $\frac{\text{مساحة الجرود المنجزة}}{\text{مساحة}} = D$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 | | $\frac{\text{عدد أفراد النوع}}{\text{مجموع أفراد الأنواع المحسوبة}} = d$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | $\frac{\text{عدد الجرود المحتوية على النوع}}{\text{عدد الجرود المنجزة}} = F$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | <table border="1"> <thead> <tr> <th>الأنواع</th> <th>المجموع</th> <th>D</th> <th>d</th> <th>F</th> <th>IF</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>98</td> <td>8.2</td> <td>7.85</td> <td>50</td> <td>III</td> </tr> <tr> <td>2</td> <td>199</td> <td>16.6</td> <td>15.95</td> <td>100</td> <td>V</td> </tr> <tr> <td>3</td> <td>16</td> <td>1.3</td> <td>1.28</td> <td>25</td> <td>II</td> </tr> <tr> <td>4</td> <td>78</td> <td>6.5</td> <td>6.25</td> <td>62.5</td> <td>III</td> </tr> <tr> <td>1</td> <td>273</td> <td>22.8</td> <td>21.88</td> <td>75</td> <td>III</td> </tr> <tr> <td>2</td> <td>3</td> <td>0.3</td> <td>0.24</td> <td>25</td> <td>II</td> </tr> <tr> <td>3</td> <td>165</td> <td>13.8</td> <td>13.22</td> <td>75</td> <td>III</td> </tr> <tr> <td>4</td> <td>416</td> <td>34.7</td> <td>33.33</td> <td>100</td> <td>V</td> </tr> <tr> <td></td> <td>1248</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | الأنواع | المجموع | D | d | F | IF | 1 | 98 | 8.2 | 7.85 | 50 | III | 2 | 199 | 16.6 | 15.95 | 100 | V | 3 | 16 | 1.3 | 1.28 | 25 | II | 4 | 78 | 6.5 | 6.25 | 62.5 | III | 1 | 273 | 22.8 | 21.88 | 75 | III | 2 | 3 | 0.3 | 0.24 | 25 | II | 3 | 165 | 13.8 | 13.22 | 75 | III | 4 | 416 | 34.7 | 33.33 | 100 | V | | 1248 | | | | |
| الأنواع | المجموع | D | d | F | IF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 98 | 8.2 | 7.85 | 50 | III | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 199 | 16.6 | 15.95 | 100 | V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 16 | 1.3 | 1.28 | 25 | II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 78 | 6.5 | 6.25 | 62.5 | III | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 273 | 22.8 | 21.88 | 75 | III | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 3 | 0.3 | 0.24 | 25 | II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 165 | 13.8 | 13.22 | 75 | III | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 416 | 34.7 | 33.33 | 100 | V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1248 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>V</th> <th>IV</th> <th>III</th> <th>II</th> <th>I</th> <th>IF</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>0</td> <td>4</td> <td>2</td> <td>0</td> <td>عدد الأنواع</td> </tr> </tbody> </table> | V | IV | III | II | I | IF | 2 | 0 | 4 | 2 | 0 | عدد الأنواع | إنجاز مدرج و منحنى التردد | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V | IV | III | II | I | IF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 0 | 4 | 2 | 0 | عدد الأنواع | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1.5

4- منحنى متعدد المنوال يعني أن المنطقة المدروسة غير متجانسة

تمرين رقم 2 :

1- تحديد النسبة المئوية لمكونات كل تربة باستعمال مثلث قوام التربة :



1

1

0.25
0.25
0.25
0.25

2

| | % الرمل | % الطمي | % الطين | |
|----------|---------|---------|---------|--|
| A التربة | 70 | 20 | 10 | |
| B التربة | 25 | 25 | 50 | |
| C التربة | 35 | 45 | 20 | |

2- قوام التربة يحدده قد مكونات التربة .

3- تكون البنية الكبيبية بحضور الأحماض الذبالية
تتميز بفراغات مهمة
تمكن من تهوية التربة
ترفع من قدرة التربة على الاحتفاظ بالماء

-4-

| | % الرمل | % الطمي | % الطين | |
|----------|---------|---------|---------|--|
| X التربة | 33.5 | 16.5 | 50 | |
| Y التربة | 70 | 20 | 10 | |

ب- لتحديد قوام التربة يجب استعمال مثلث قوام التربة :

