بقیہ جدول الجیب

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	جیب	تفاضل	جیب	تفاضل	جیب	تفاضل	جیب	تفاضل	جیب	تفاضل
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سط	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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عا	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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بقية جدول الجيب

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	جيب	تفاضل	جيب	تفاضل	جيب	تفاضل	جيب	تفاضل	جيب	تفاضل
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ز	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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ط	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ي	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
يا	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
يب	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
يج	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
يد	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
يه	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
يو	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
يز	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
يح	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
يط	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ك	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
كا	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
كب	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
كج	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
كد	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
كه	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
كو	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
كز	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
كح	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
كط	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

بقیہ جدول الجیب

	سہ		سو		سز		سح		سط	
	جیب	تفاضل	جیب	تفاضل	جیب	تفاضل	جیب	تفاضل	جیب	تفاضل
ل	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
لا	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
لب	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
لج	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
لد	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
له	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
لو	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
لز	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
لح	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
لط	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
م	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ما	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مب	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مج	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مد	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مه	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مو	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مز	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مح	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مط	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ن	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نا	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نب	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نج	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ند	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نه	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نو	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نز	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نح	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نط	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

بقية جدول الجيب

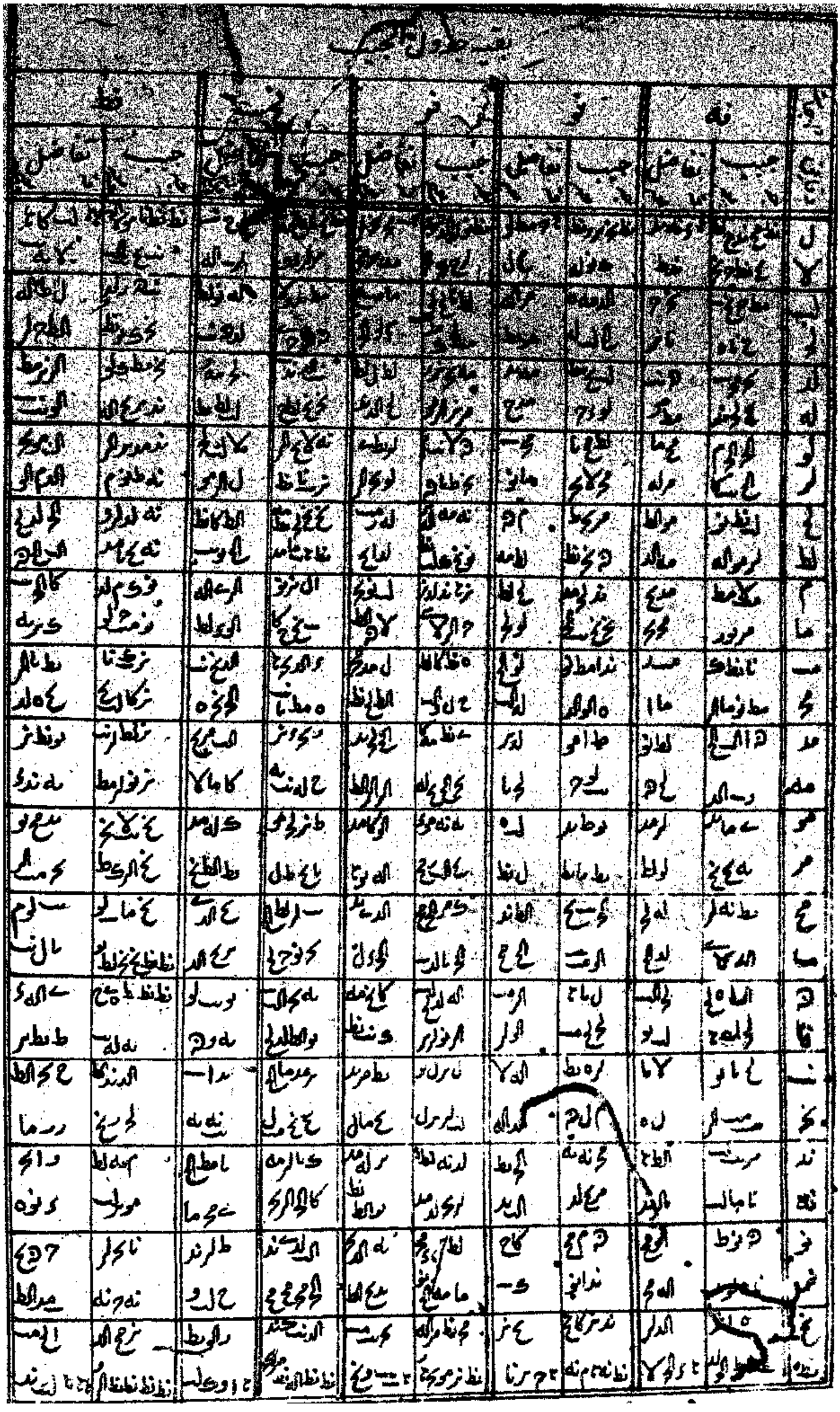
	ع		غا		عب		عج		عد	
	جيب	تفاضل	جيب	تفاضل	جيب	تفاضل	جيب	تفاضل	جيب	تفاضل
ا	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ب	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ج	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
د	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ه	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
و	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ز	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ح	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ط	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ي	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
يا	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
يب	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
يج	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
يد	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
يه	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
يو	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
يز	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
يح	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
يط	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ك	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
كا	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
كب	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
كج	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
كد	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
كه	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
كو	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
كز	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
كح	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
كط	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

تفسير جدول الجيب

بقية جدول الجيب

	عه		عو		عز		عح		عط	
	جيب	تفاضل	جيب	تفاضل	جيب	تفاضل	جيب	تفاضل	جيب	تفاضل
ل	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
لا	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
لب	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
لج	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
لد	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
له	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
لو	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
لز	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
لح	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
لط	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
م	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ما	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مب	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مج	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مد	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مه	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مو	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مز	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مح	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
مط	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ن	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نا	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نب	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نج	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نز	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نه	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نو	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نز	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
نح	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

	نه														
	جيب	تفاضل	جيب	تفاضل	جيب	تفاضل	جيب	تفاضل	جيب	تفاضل	جيب	تفاضل	جيب	تفاضل	جيب	تفاضل
ا	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ب ج	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
د ه	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
و ز	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ح ط	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ى ما	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
س كه	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
عد ر	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
يه	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
يو ر	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ك ط	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ك كا	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
اب لج	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
اد اه	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
او ار	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
اح اط	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

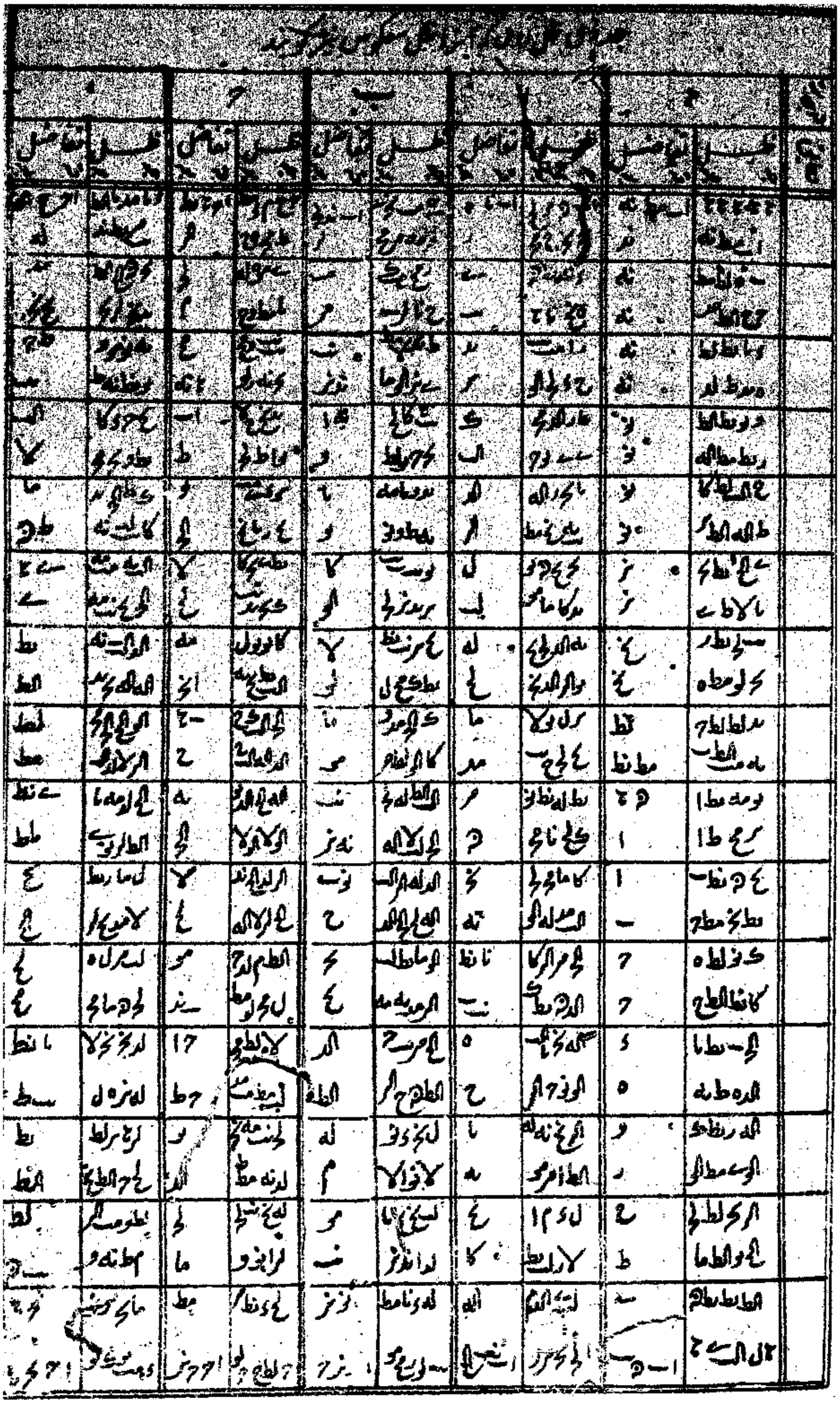


[illegible] اول [illegible] مقدار [illegible]
[illegible] مقدار [illegible] قوس [illegible] جیب [illegible]
[illegible] اول آن
قوس باشد و اگر [illegible] یعنی جیب تمام قوس را تا [illegible] جیب قوس [illegible]
قسمت کنند [illegible] دوم آن قوس برآید [illegible] شکل [illegible]
[illegible] گذشت
[illegible] و از نقطه ح عمود ح ط بر زج کشیم و از ج دو عمود جب جک بر ه ح و ح د
مطابق بیانی که در مقدمه گذشت ظاهر است که
خط ه ه مثل اول قوس ح ح است و مثل
دوم قوس ه ح و خط جب بلکه ک ر
جیب قوس ح ه است و جک بلکه ر ب
جیب قوس ح ح است و چون در
دو مثلث ه ه ر جب ک ر زاویه ر
مشترک است و دو زاویه ه ک
قائمه اند پس بحکم شکل الف از ۲ خزینه اول
دو زاویه ه ه ر ک ح متساوی باقی مانند و بحکم شکل الف از ۳ خزینه اول اضلاع نظائر دو
مثلث مذکور متناسب باشند ازین جهت نسبت ه ه بمجهول سوی ک ح معلوم چون نسبت
ه ر نصف قطر سوی ر ب معلوم باشد چون مجهول احد الطرفین است باید که
مسطح دو سطین را یعنی مرفوع ب ح را بر ب ر قسمت کنیم لامحاله خارج قسمت قدر ه ه باشد
و اگر ب ح را مرفوع نسازیم بلکه عوض ان ر ب را بکمیت خط گرفته قسمت کنیم بلا تفاوت
مقدار ه ه برآید چنانچه بیان این در قسمت ارقام سنینی گذشت و بقیاس انچه گفته
شد دو مثلث ر ح ط ر ک ح نیز متشابه اند بنا بر علیه نسبت ط ح سوی ح ک بلکه سوی
ر ب چون نسبت ر ح سوی ر ک باشد ازین قبیل چون ح ک را بر ر ک
بخط قسمت کنند خارج ط ح باشد و برای مثال فرض کنیم قوس ح ط
ربع الدائره * پس مقدار ح ک باشد * ه ما ک ح * رابعه بر قدر خط

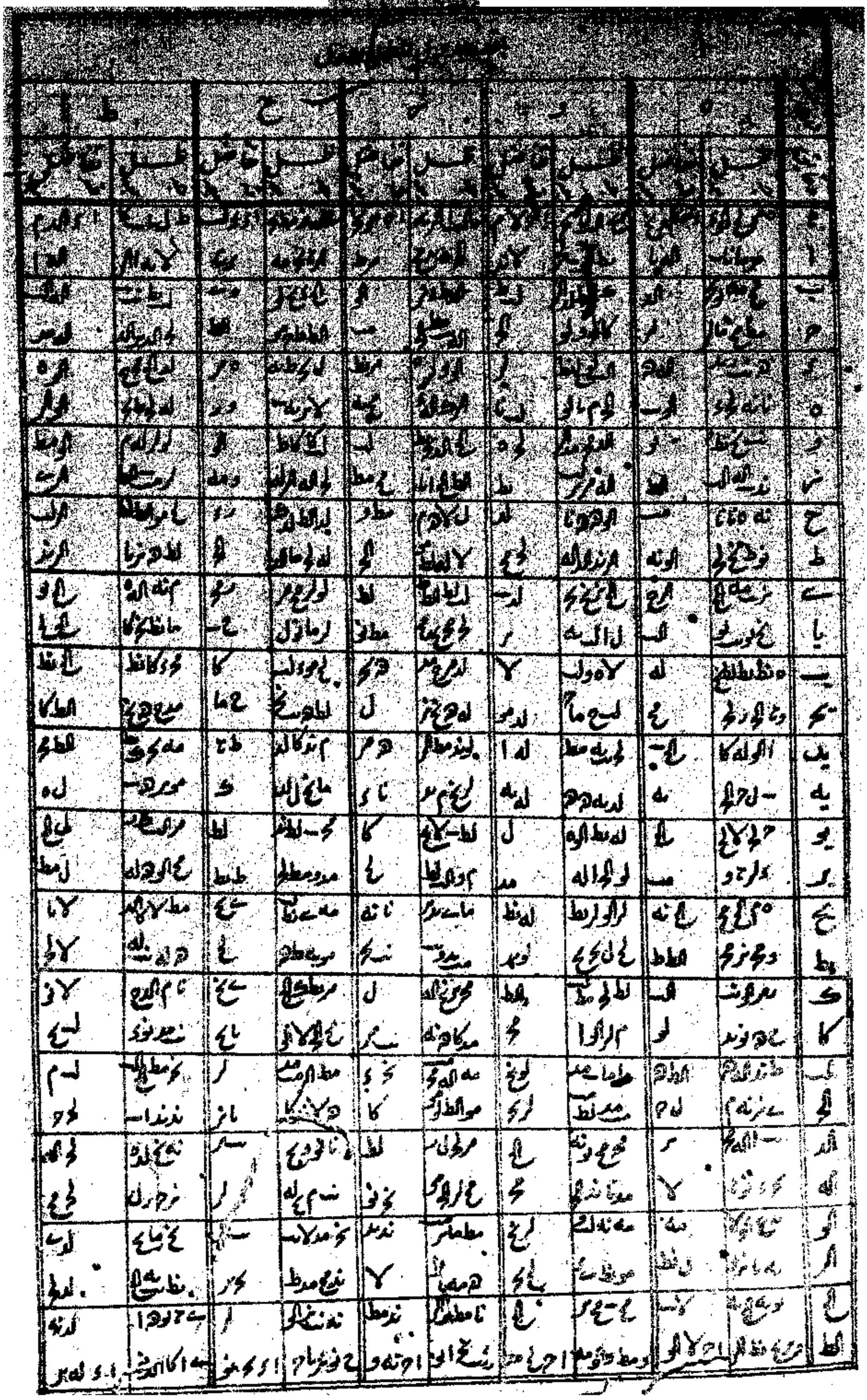
[illegible]

اول و ظل دوم قوس یعنی بیان رجوع ظل بر آنست از
پس نسبت و سوی رجوع نصف قطر چون نسبت ترتیب نصف قطر سوی رجوع ظل
جست هرگاه رجوع نصف قطر را کرباب مثنی است بر ظل اول قسمت کند ظل
ثانی برآید و اگر بر ظل ثانی قسمت کند ظل اول بهم رسد و ازین بیان واضح
گشت که قوسی که از ثمن دور یعنی ** مثلا ** درجه کمتر باشد ظل
اول او از نصف قطر کمتر بود و ظل ثانی آن زیاده و هر قوسیکه اکثر بود ظل آن
بالعکس باشد و ظل ثمن دور نصف قطر می باشد اول بود خواه ثانی *

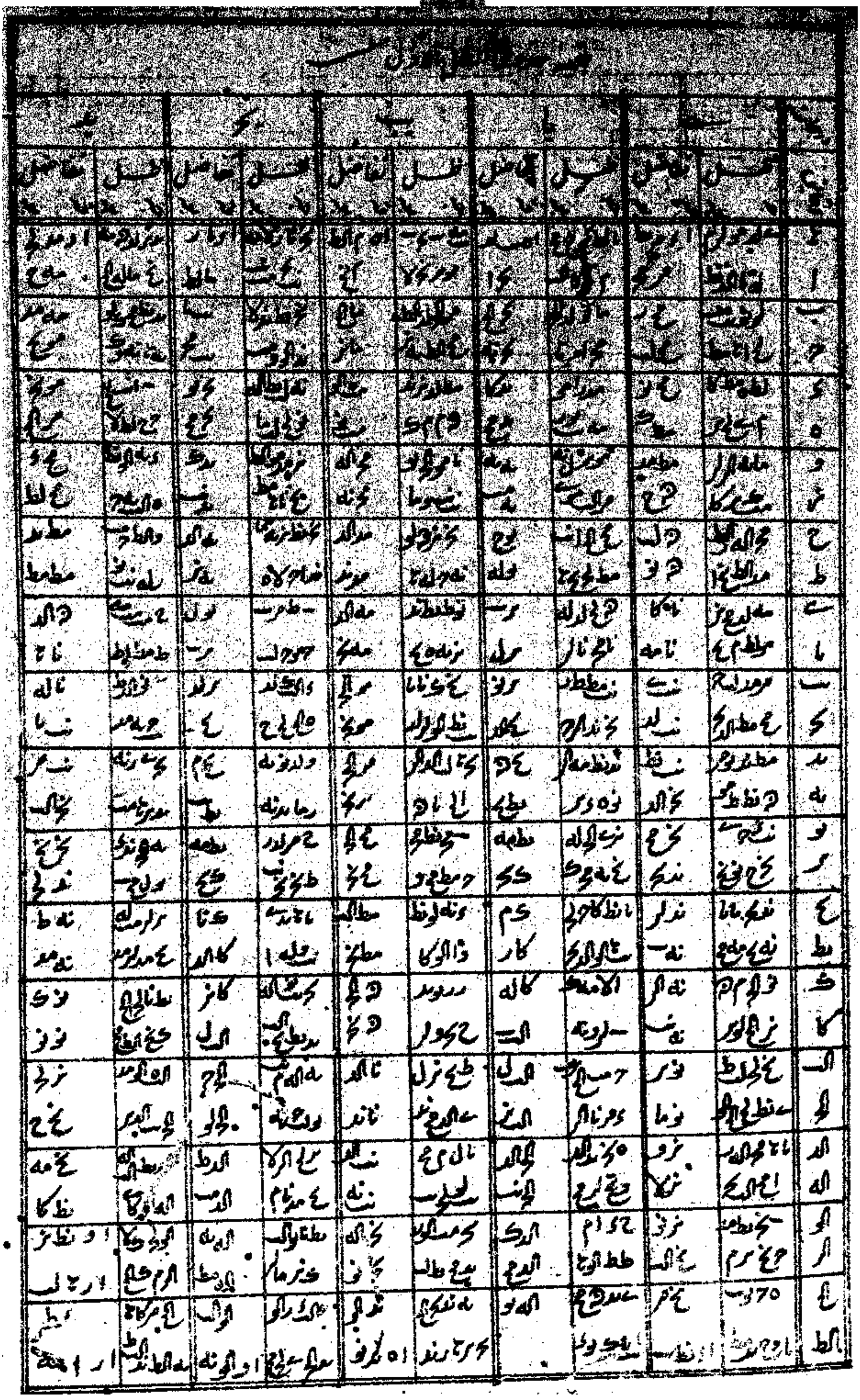
** انکشاف دوم ** در ترتیب جدول ظل معلوم باد که قدما
ظل قسی را ** مثلا ** درجه در جدول ایراد می کردند و هر
قوسیکه زیاده از ** مثلا ** میشد مرفوع نصف قطر را بر ظل تمام
آن قوس که البته از ** مثلا ** کمتر است قسمت می کردند
تا ظل اول حاصل میشد اما متاخران جدول ظل را تا نود درجه
مرقوم میسازند تا در عمل آسانی باشد اما نقشه جدول
ظل اول بعینه نقشه جدول جیب میباشد از درجات و دقایق
و تفاصیل و ظل ثانی را در جدول فقط بمقابله قسی
درجات می آرند خواه ستینی باشد خواه اربع
خواه اقدام و طریق اخذ ظل قوس و
تقویس ظل از جدول بعینه طریقه
اخذ جیب قوس و تقویس
جیب بعمل تعدیل بین
السطرین
است



تتمة جدول منازل القمر



فہرست جدول اقبال نامہ



منتهی تا نقطه و از مقدم مدار، هر نقطه بر دو خط ه ح ه ب یک قسم متساوی و از طرف هر قسم بر نفس خط
مقسوم عمود ه ی ح ی کنند تا منتهی بقوس ه ح م شوند و بر مرکز ه ببعد جیب میل کلی که تقریباً بیست و چهار
درجه است قوسی مرسوم کنند منتهی بدو خط ه ح ه ب شود و این قوس را دائره میل نامند و دو نصف دائره
دیگر رسم کنند که قطر آنها دو خط ه ح ه ب باشد و این دو نصف را دوائر تجیب خوانند من بعد آن در
مستطیل ب ح دو لبنه ذی ثقبه متساوی الارتفاع مثل لبنه عضاده اسطرلاب قائم کنند مگر باید که یکی از آن
دو لبنه بر نفس مربع ه ب باشد و دیگری بر سطح ع ح و بر مرکز ه ثقبه یا دو ثقب کنند و در آن
ثقبه خیطی منسلک ساخته طرفش را معقد گردانند تا از ثقبه بر نیاید و در طرف دوم خیط شاقولی متناسب
الثقل و الحجم مربوط سازند از طول خط ه ح قدری زاید باشد تا شاقول بلا مزاحمت ربع از
هر جزو محیط آویزان باشد و درین خیط یک خیط قصیر معقد منسلک گردانند بنوعی که بتمام
طول خیط اول روان باشد و بدین عمل صنعت ربع مجیب کامل می گردد اکنون اسمای
اجزا و نقوش این ربع بیان کنیم و گوئیم که نقطه که بر زاویه ربع است آنرا قطب گویند
و خیطی را که در قطب مربوط الشاقول است خیط الربع گویند و خیط دیگر صغیر که درین خیط
مربوط است آنرا سری نامند و قوس ه ح را ربع ارتفاع نامند و اجزاء نورگانه این قوس را
اجزاء ارتفاع خوانند. اگر ابتدا ارتفاع از طرف ه کنند ارتفاع مستوی باشد
و اگر از طرف ح ابتدا کنند تمام ارتفاع بود و خط ه ب را خط مشرق و مغرب و جیب مام گویند
در عمود [illegible] از اقسام شصت گانه [illegible] مشرق و مغرب خارج شده تا قوس ارتفاع
رسیده باشد جیب مستوی بر آن قوس را از ربع که مقصور بود میان طرف همین عمود و نقطه ه
جیب معکوس است برای آن قوس که محصور باشد میان طرف مذکور و نقطه ح و خط د ه را خط
سینی و جیب اعظم و خط زوال و خط نصف النهار و خط وسط السما نامند و قامت ظل مبسوط
خط دوازدهم است از اعداد مستوی [illegible] مرکز و قامت ظل منکوس خط [illegible]
[illegible] جیب تمام [illegible]
[illegible] و بطلیموس همین آلت بوده است [illegible] طریق [illegible] حلقه [illegible] جوب [illegible]
[illegible] راستی [illegible] [illegible] [illegible]

ظاهر این حلقه را از صفایح برنج مخروطی سازند و سطوح ظاهر برنج را بغایت هموار و مصقل گردانند و یک
روی آن متصل محیط اندرونی دائره تا سه رسم کنند و بالای این دائره سه دائره دیگر رسم کنند بنوعی که
میان هر دو از این سه دائره بعد نیم اصبع باشد بعده وجه این حلقه را مع دوائر سه گانه بر چهار ربع متساوی
قسمت کنند و بر یک نقطه علامت شمال نقش کنند و بر مقابل آن علامت جنوب و نقطه که میان شمال و
جنوب است بر آن علامت سمت الراس گذارند و مقابل آن علامت سمت القدم و هر ربع را بنود جزء متساوی
برنجی که در ربع مجیب کرده بودند قسمت کنند و هر درجه را بر اجزاء صغار بالغاً الی ما
یمکن در وسعتی که میان دائره لب اندرونی حلقه و دائره دوم واقع است قسمت کنند و در
قسمت مذکور تا سی حصه متساویه درجه که هر حصه بقدر دو دقیقه میسر می تواند شد و ارقام
خمسات مبتدا از نقطه شمال و جنوب و منتهی تا نقطه سمت الراس و القدم در هر ارباع نقش کنند
من بعد آن حلقه دیگر سازند مثل حلقه اول در نحو بکر آنکه قطر بیرونی این حلقه مساوی قطر
اندرونی حلقه اول باشد تا این حلقه در حلقه اول در آید و بی مزاحمت اندرون
آن بگردد و سطحی که سطح جهه هر دو حلقه در یک سطح باشند و محاذی نقاط ارباع تقسیم
ارباع جهه رعوده که هر یک بعد دو اصبع از لب حلقه اول بهر دو جانب نازل باشند از
و تدشمک سازند تا حلقه تان اندرون حلقه اول بی خروج گردیده باشد بعده حلقه صغری را
از قطری تذهب کنند و هر یک از دو طرف این قطر را مری نام نهند و دو لبنه ثقبه دار بر طرفین
این حلقه بر نفس خط مری قائم کنند بنوعی که خطی که از وسط ثقبه لبنه آید بر خط مری عمود باشد
من بعد آن موضعی را تفع بهم رسانند که نوامیس را انحدار عمارات حاجه افق خالی باشد
خاصه از ناحیه شمال و جنوب و سطح آن موضع را مستوی و موازی افق سازند و همچنانکه
در انکشاف آینده مذکور است خط نصف النهار در آن سطح پیدا کنند و دو عود چوبین
بنابر اسوار هر دو تخته کمتر از وجه نباشد بر آن سطح مستوی محکم قائم کنند بنوعی که
سطح یک جهت هر یک بر خط نصف النهار منطبق باشد و باید که طول این دو عمود که بعد
از ظاهر است سه ذراع باشد و ما بین اصل آنها بقدر دو حلقه مسطح بود و در وسط
ما بین اصل این دو عمود عمود دیگر که ارتفاع یک وجب و نیم است نصب کنند و در وسط
طول این عمود آن قدر شکاف سازند که حلقه اول در آن شیار نشیند پس حلقه را میان این
سه عمود در آورده و با میخهای ساقو بقواعد الرخام آل [illegible]