

**SULIT**



**BAHAGIAN PEPERIKSAAN DAN PENILAIAN  
JABATAN PENDIDIKAN POLITEKNIK  
KEMENTERIAN PENDIDIKAN TINGGI**

**JABATAN PERDAGANGAN**

**PEPERIKSAAN AKHIR**

**SESI JUN 2017**

**DPB5043 : BUSINESS FINANCE**

**TARIKH : 29 OKTOBER 2017**

**MASA : 2.30 PETANG - 4.30 PETANG (2 JAM)**

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Kertas ini mengandungi **SEPULUH (10)** halaman bercetak.

Struktur (4 soalan)

Dokumen sokongan yang disertakan : Jadual PVIF & PVIFA

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**JANGAN BUKA KERTAS SOALAN INI SEHINGGA DIARAHKAN**

(CLO yang tertera hanya sebagai rujukan)

**SULIT**

**INSTRUCTION:**

This section consists of **FOUR (4)** structured questions. Answer **ALL** questions.

**ARAHAN:**

*Bahagian ini mengandungi EMPAT (4) soalan berstruktur. Jawab SEMUA soalan.*

**QUESTION 1****SOALAN 1**CLO1  
C1

- (a) (i) List **THREE (3)** disadvantages for the objective of profit maximization.

*Senaraikan TIGA (3) kekurangan untuk objektif keuntungan maksimum.*

[3 marks]

[3 markah]

- (ii) State **TWO (2)** roles of Financial Manager in a large company.

*Nyatakan DUA (2) peranan Pengurus Kewangan di dalam sesebuah syarikat besar.*

[2 marks]

[2 markah]

CLO1  
C2

- (b) KAWE Bhd needs to increase its working capital by RM8, 000,000. Two financing alternatives are available:

*KAWE Bhd ingin meningkatkan modal kerjanya sebanyak RM8, 000,000.*

*Dua alternatif yang berikut disediakan:*

- i. Borrow from a bank at 12% interest. The company must maintain a 5% compensating balance.

*Pinjam dari sebuah bank pada kadar faedah 12%. Syarikat mesti mengekalkan baki pampasan sebanyak 5%.*

- ii. Issue of commercial paper. Interest charged is 7% and a fee of 3% is payable to the dealer.

*Mengeluarkan kertas perdagangan. Faedah yang dikenakan adalah 7% dan yuran sebanyak 3% akan dibayar kepada pengedar.*

Calculate the effective annual cost of each source of fund and choose the best.

*Kirakan kos efektif tahunan bagi setiap sumber dana dan pilih yang terbaik.*

[10 marks]

[10 markah]

CLO1  
C3

(c) An income statement for CENDOLTAPE Sdn Bhd is shown as below.

*Penyata Pendapatan bagi CENDOLTAPE Sdn Bhd adalah seperti di bawah:*

Income Statement for the year ended 31 December 2015

*Penyata Pendapatan bagi tahun berakhir pada 31 Disember 2015*

	RM
Sales/ <i>Jualan</i>	30,000,000
Variable cost/ <i>Kos berubah</i>	<u>16,000,000</u>
Revenue before fixed cost/ <i>Hasil sebelum kos tetap</i>	14,000,000
Fixed cost/ <i>Kos tetap</i>	<u>7,000,000</u>
EBIT/ <i>PSFC</i>	7,000,000
Interest expense/ <i>Perbelanjaan faedah</i>	<u>1,000,000</u>
Earnings before taxes/ <i>Perolehan sebelum cukai</i>	6,000,000
Taxes/ <i>Cukai</i>	<u>1,620,000</u>
Net income/ <i>Pendapatan bersih</i>	4,380,000

i) Degree of Operating Leverage (DOL)  
*Darjah Keumpilan Operasi*

[3 marks]

[3 markah]

ii) Degree of Financial Leverage (DFL)  
*Darjah Keumpilan Kewangan*

[3 marks]

[3 markah]

iii) Degree of Combination Leverage (DCL). If the industrial degree of combined leverage is 2.5 times, illustrate your comment on the CENDOLTAPE Sdn. Bhd.'s degree of combination leverage.

*Darjah Leveraj Gabungan. Jika darjah leveraj gabungan yang dicatatkan oleh industri berkenaan secara keseluruhan adalah sebanyak 2.5 kali, gambarkan ulasan anda terhadap darjah leveraj gabungan bagi CENDOLTAPE Sdn Bhd.*

[4 marks]

[4 markah]

## QUESTION 2

### SOALAN 2

(a) You are a financial manager of ROYAK Sdn. Bhd. The director of capital budgeting asked you to analyze two proposed capital investments, projects X (PRO X) and Y (PRO Y). The relevant information for each project is stated as below:

*Anda adalah seorang pengurus kewangan bagi ROYAK Sdn. Bhd.. Pengarah dari belanjawan modal meminta anda untuk menganalisa dua cadangan pelaburan modal, projek X (PRO X) dan Y (PRO Y). Maklumat berkaitan bagi setiap projek ada tercatat seperti di bawah:*

- Each project has a cost of RM26,000  
*Setiap projek mempunyai kos sebanyak RM26,000*
- The cost of capital for each project is 12%  
*Kos atas modal bagi setiap projek adalah 12%*
- The projects' expected net cash flows are as follows:  
*Anggaran bersih aliran tunai bagi projek adalah seperti berikut:*

Year/Tahun	PRO X (RM)	PRO Y (RM)
1	6,500	6,582
2	6,000	7,219
3	5,000	6,991
4	21,000	23,938

You are required to calculate :

*Anda dikehendaki untuk mengira:*

- (i) payback period for both projects.  
*tempoh bayaran balik untuk kedua-dua projek.*
- (ii) internal rate of return for both projects.  
*kadar pulangan dalaman untuk kedua-dua projek.*

[2 marks]

[2 markah]

[8 marks]

[8 markah]

- (b) Choose the best project and state **TWO (2)** reasons.  
*Pilih projek yang terbaik dan nyatakan DUA (2) alasan.*

[5 marks]

[5 markah]

CLO1  
C2

CLO1  
C3

CLO1  
C2

- (c) Based on the above projects as well as the further information below,  
*Berdasarkan kedua-dua projek di atas berserta dengan maklumat lanjut diberikan seperti di bawah,*

Economic Conditions <i>Keadaan Ekonomi</i>	Probabilities <i>Kebarangkalian</i>	Expected Return <i>Anggaran Pulangan</i> (RM)	
		<i>PRO X</i>	<i>PRO Y</i>
<b>Growth</b> <i>Berkembang</i>	0.4	6,500	6,582
<b>Boom</b> <i>Melambung</i>	0.2	6,000	7,219
<b>Decline</b> <i>Menurun</i>	0.3	5,000	6,991
<b>Depression</b> <i>Meleset</i>	0.1	21,000	23,938

You are required to calculate:

*Anda dikehendaki untuk mengira:*

- (i) expected rate of return for both projects.  
*kadar pulangan jangkaan untuk kedua-dua projek.*
- (ii) standard deviation for both projects.  
*sisihan piawai untuk kedua-dua projek.*

[4 marks]

[4 markah]

[6 marks]

[6 markah]

## QUESTION 3

## SOALAN 3

CLO2  
C1

- (a) (i) State
- TWO (2)**
- types of financial statements.

*Nyatakan DUA (2) jenis penyata kewangan.*

[2 marks]

[2 markah]

- (ii) List
- THREE (3)**
- purposes of computing financial ratio.

*Senaraikan TIGA (3) tujuan mengira nisbah kewangan.*

[3 marks]

[3 markah]

CLO2  
C3

- (b) The data below represents two finance companies in Malaysia known as DaeHan and MinGook. The table below shows the Income Statement and Statement of Financial Positions for the two companies.

*Data di bawah mewakili dua syarikat kewangan di Malaysia yang dikenali dengan nama DaeHan dan MinGook. Jadual di bawah menunjukkan ringkasan Penyata Pendapatan dan Kunci Kira-kira untuk kedua-dua syarikat tersebut.*

	DaeHan	MinGook
Sales <i>Jualan</i>	RM 2,500,000	(iv)
Net Income <i>Pendapatan bersih</i>	RM 50,000	RM 60,000
Total Assets <i>Jumlah Aset</i>	RM 250,000	(v)
Total Assets Turnover <i>Pusinganganti Jumlah Aset</i>	(i)	(vi)
Net Profit Margin <i>Margin Untung Bersih</i>	(ii)	6.5%
Return on Assets <i>Pulangan Atas Aset</i>	(iii)	2.5%

Complete the data for those three companies by filling in the blanks for (i), (ii), (iii), (iv), (v) and (vi) with appropriate values.

*Lengkapkan maklumat untuk ketiga-tiga syarikat tersebut dengan mengisi tempat kosong bagi (i), (ii), (iii), (iv), (v) dan (vi) dengan nilai yang sesuai.*

[15 marks]

[15 markah]

CLO2  
C4

- (c) From the data in (b), which company has the
- BEST**
- financial performance? Provide
- TWO (2)**
- reasons for your answer.

*Daripada maklumat yang terdapat di (b), syarikat manakah yang mempunyai prestasi kewangan yang TERBAIK? Berikan DUA (2) sebab untuk jawapan anda.*

[5 marks]

[5 markah]

## QUESTION 4

## SOALAN 4

CLO2  
C1

- (a) Count the effective cost for the following trade credit terms:-

*Kira kos efektif kredit untuk setiap terma kredit dagangan di bawah:-*

- i. 3/10 net 30
- 
- 3/10 bersih 30

[2.5 marks]

[2.5 markah]

- ii. 4/15 net 60
- 
- 4/14 bersih 60

[2.5 marks]

[2.5 markah]

CLO2  
C2

- (b) GuGuDan Corporation has an annual credit sale of RM 16 million and average collection period of 40 days. The level of bad debt is RM 480,000 and the required rate of return before tax is 16 percent. Assumed that GuGuDan Corporation only produces one product, it has a variable cost of 70% of the cost price. The company is considering a change in credit policy where customers will get 1% discount if payment is made within 20 days. However, if the customers are unable to pay within 20 days, they would not get any discount and have to pay the full amount within 60 days.

If the change is implemented, it is expected that 40% of customers will take the discount and pay on Day 20, while 60% will ignore the discount and pay on day 60. This will increase the average collection period from 40 days to 44 days. GuGuDan Corporation is considering making changes because it is expected to generate an additional sales credit of RM 2 million. Besides that, the increment in sales will also influence the increment in bad debts. It is assumed that bad debt on the original sale is consistent and bad debt for additional sales is 6%. In addition, the average inventory level is RM 2 million currently. After the implementation of the plan, GuGuDan Corporation will have the average inventory level at RM 2,050,000.

**Using marginal analysis, calculate whether the proposed credit policy changes should be implemented or otherwise.**

*GuGuDan Corporations mempunyai jualan kredit tahunan sebanyak RM 16 juta dan tempoh kutipan purata adalah 40 hari. Tahap hutang lapuk adalah sebanyak RM 480,000 dan kadar pulangan sebelum cukai adalah sebanyak 16 peratus. Dengan menganggap GuGuDan Corporation hanya mengeluarkan satu produk, ia mempunyai kos berubah sebanyak 70% daripada harga kos. Syarikat tersebut sedang mempertimbangkan untuk mengubah polisi kredit mereka dengan memberikan 1% diskaun jika pembayaran dibuat dalam tempoh 20 hari. Walaubagaimanapun, jika pelanggan gagal membuat pembayaran dalam tempoh 20 hari, pelanggan tersebut tidak akan mendapat sebarang diskaun malah mereka perlu membayar hutang secara penuh dalam tempoh 60 hari.*

*Jika perubahan polisi kredit ini dilaksanakan, syarikat menjangkakan sebanyak 40% pelanggan akan mengambil diskaun tersebut dan membayar pada hari ke-20, manakala 60% pelanggan akan mengabaikan diskaun tersebut dan membayar pada hari ke-60. Ini akan memberi kesan kepada peningkatan tempoh kutipan purata daripada 40 hari ke 44 hari. GuGuDan Corporation mempertimbangkan untuk membuat perubahan kerana syarikat menjangkakan perubahan polisi kredit tersebut dapat menjana tambahan jualan kredit sebanyak RM 2 juta. Disamping itu, peningkatan di dalam jualan akan menyebabkan kenaikan di dalam hutang lapuk. Dengan menganggap bahawa hutang lapuk untuk jualan asal adalah konsisten, maka hutang lapuk bagi tambahan jualan adalah 6%. Tambahan pula, pada ketika ini, tahap purata inventori adalah RM 2 juta. Selepas pelaksanaan perubahan polisi kredit, GuGuDan Corporation akan mempunyai tahap purata inventori sebanyak RM 2,050,000.*

**Dengan menggunakan analisis marginal, kira sama ada perubahan polisi kredit tersebut boleh dilaksanakan atau sebaliknya.**

[15 marks]

[15 markah]

Calculate:-

Kira:-

- i. Economic Order Quantity  
Kuantiti Pesanan Ekonomi

[2.5 marks]

[2.5 markah]

- ii. Reorder point  
Titik Pesanan Semula

[2.5 marks]

[2.5 markah]

SOALAN TAMAT

Present Value and Future Value Tables

Table A-3 Present value interest factors One-Dollar Discounted at k percent for n periods:  $PVIF_{k,n} = 1/(1+k)^n$

Period	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%	16%	17%	18%	19%	20%	24%	25%	30%
1	0.9901	0.9804	0.9709	0.9615	0.9524	0.9434	0.9346	0.9259	0.9174	0.9091	0.9009	0.8929	0.8850	0.8772	0.8696	0.8621	0.8547	0.8475	0.8403	0.8333	0.8065	0.8000	0.7692
2	0.9803	0.9612	0.9426	0.9246	0.9070	0.8900	0.8734	0.8573	0.8417	0.8264	0.8116	0.7972	0.7831	0.7695	0.7561	0.7432	0.7305	0.7182	0.7062	0.6944	0.6504	0.6400	0.5917
3	0.9706	0.9423	0.9151	0.8890	0.8638	0.8396	0.8163	0.7938	0.7722	0.7513	0.7312	0.7118	0.6931	0.6750	0.6575	0.6407	0.6244	0.6086	0.5934	0.5787	0.5245	0.5120	0.4552
4	0.9610	0.9238	0.8885	0.8548	0.8227	0.7921	0.7628	0.7350	0.7084	0.6830	0.6587	0.6355	0.6133	0.5921	0.5718	0.5523	0.5337	0.5158	0.4987	0.4823	0.4230	0.4096	0.3501
5	0.9515	0.9057	0.8626	0.8219	0.7835	0.7473	0.7130	0.6806	0.6499	0.6209	0.5935	0.5674	0.5428	0.5194	0.4972	0.4761	0.4561	0.4371	0.4190	0.4019	0.3411	0.3277	0.2693
6	0.9420	0.8880	0.8375	0.7903	0.7462	0.7050	0.6663	0.6302	0.5963	0.5645	0.5346	0.5066	0.4803	0.4556	0.4323	0.4104	0.3898	0.3704	0.3521	0.3349	0.2751	0.2621	0.2072
7	0.9327	0.8706	0.8131	0.7599	0.7107	0.6651	0.6227	0.5835	0.5470	0.5132	0.4817	0.4523	0.4251	0.3996	0.3759	0.3538	0.3332	0.3139	0.2959	0.2791	0.2218	0.2087	0.1594
8	0.9235	0.8535	0.7894	0.7307	0.6768	0.6274	0.5820	0.5403	0.5019	0.4665	0.4339	0.4039	0.3762	0.3506	0.3269	0.3050	0.2848	0.2660	0.2487	0.2326	0.1789	0.1678	0.1226
9	0.9143	0.8368	0.7664	0.7026	0.6446	0.5919	0.5439	0.5002	0.4604	0.4241	0.3909	0.3606	0.3329	0.3075	0.2843	0.2630	0.2434	0.2255	0.2090	0.1938	0.1443	0.1342	0.0943
10	0.9053	0.8203	0.7441	0.6756	0.6139	0.5584	0.5083	0.4632	0.4224	0.3855	0.3522	0.3220	0.2946	0.2697	0.2472	0.2267	0.2080	0.1911	0.1756	0.1615	0.1164	0.1074	0.0725
11	0.8963	0.8043	0.7224	0.6496	0.5847	0.5268	0.4751	0.4288	0.3875	0.3505	0.3173	0.2875	0.2607	0.2366	0.2149	0.1954	0.1778	0.1619	0.1476	0.1346	0.0938	0.0859	0.0556
12	0.8874	0.7885	0.7014	0.6246	0.5568	0.4970	0.4440	0.3971	0.3555	0.3186	0.2858	0.2567	0.2307	0.2076	0.1869	0.1685	0.1520	0.1372	0.1240	0.1122	0.0757	0.0687	0.0429
13	0.8787	0.7730	0.6810	0.6006	0.5303	0.4688	0.4150	0.3677	0.3252	0.2877	0.2545	0.2252	0.2002	0.1781	0.1592	0.1425	0.1279	0.1143	0.1042	0.0935	0.0610	0.0550	0.0330
14	0.8700	0.7579	0.6611	0.5775	0.5051	0.4423	0.3878	0.3405	0.2992	0.2633	0.2290	0.2006	0.1761	0.1549	0.1371	0.1225	0.1110	0.0995	0.0876	0.0779	0.0492	0.0440	0.0254
15	0.8613	0.7430	0.6419	0.5553	0.4810	0.4173	0.3624	0.3152	0.2745	0.2394	0.2050	0.1827	0.1599	0.1401	0.1228	0.1079	0.0949	0.0835	0.0736	0.0649	0.0397	0.0352	0.0195
16	0.8528	0.7284	0.6232	0.5339	0.4581	0.3936	0.3387	0.2919	0.2519	0.2176	0.1833	0.1631	0.1415	0.1229	0.1069	0.0930	0.0811	0.0708	0.0618	0.0541	0.0320	0.0281	0.0150
17	0.8444	0.7142	0.6050	0.5134	0.4363	0.3714	0.3166	0.2703	0.2311	0.1978	0.1636	0.1459	0.1252	0.1078	0.0929	0.0802	0.0693	0.0600	0.0520	0.0451	0.0258	0.0225	0.0116
18	0.8360	0.7002	0.5874	0.4936	0.4155	0.3503	0.2959	0.2502	0.2120	0.1799	0.1458	0.1300	0.1108	0.0946	0.0808	0.0691	0.0592	0.0508	0.0437	0.0376	0.0208	0.0180	0.0089
19	0.8277	0.6864	0.5703	0.4746	0.3957	0.3305	0.2765	0.2317	0.1945	0.1635	0.1294	0.1161	0.0981	0.0829	0.0703	0.0596	0.0506	0.0431	0.0367	0.0313	0.0168	0.0144	0.0068
20	0.8195	0.6730	0.5537	0.4564	0.3769	0.3118	0.2584	0.2145	0.1784	0.1486	0.1240	0.1037	0.0868	0.0728	0.0611	0.0514	0.0433	0.0365	0.0308	0.0261	0.0135	0.0115	0.0053
21	0.8114	0.6598	0.5375	0.4388	0.3589	0.2942	0.2415	0.1987	0.1637	0.1351	0.1117	0.0926	0.0768	0.0638	0.0531	0.0443	0.0370	0.0309	0.0259	0.0217	0.0109	0.0092	0.0040
22	0.8034	0.6468	0.5219	0.4220	0.3418	0.2775	0.2257	0.1839	0.1502	0.1228	0.1007	0.0826	0.0680	0.0560	0.0462	0.0382	0.0316	0.0262	0.0218	0.0181	0.0088	0.0074	0.0031
23	0.7954	0.6342	0.5067	0.4057	0.3256	0.2618	0.2109	0.1703	0.1378	0.1117	0.0907	0.0738	0.0601	0.0491	0.0402	0.0329	0.0270	0.0222	0.0183	0.0151	0.0071	0.0059	0.0024
24	0.7876	0.6217	0.4919	0.3901	0.3101	0.2470	0.1971	0.1577	0.1264	0.1015	0.0817	0.0659	0.0532	0.0431	0.0349	0.0284	0.0231	0.0188	0.0154	0.0126	0.0057	0.0047	0.0018
25	0.7798	0.6095	0.4776	0.3751	0.2953	0.2330	0.1842	0.1460	0.1160	0.0923	0.0736	0.0588	0.0471	0.0378	0.0304	0.0245	0.0197	0.0160	0.0129	0.0105	0.0046	0.0038	0.0014
30	0.7419	0.5521	0.4120	0.3083	0.2314	0.1741	0.1314	0.0994	0.0754	0.0573	0.0437	0.0334	0.0256	0.0196	0.0151	0.0116	0.0090	0.0070	0.0054	0.0042	0.0016	0.0012	-
35	0.7059	0.5000	0.3554	0.2534	0.1813	0.1301	0.0937	0.0676	0.0490	0.0356	0.0259	0.0189	0.0139	0.0102	0.0075	0.0055	0.0041	0.0030	0.0023	0.0017	0.0005	-	-
36	0.6989	0.4902	0.3450	0.2437	0.1727	0.1227	0.0875	0.0626	0.0449	0.0323	0.0234	0.0169	0.0123	0.0089	0.0065	0.0048	0.0035	0.0026	0.0019	0.0014	-	-	-
40	0.6717	0.4529	0.3066	0.2063	0.1420	0.0972	0.0668	0.0460	0.0318	0.0221	0.0154	0.0107	0.0075	0.0053	0.0037	0.0026	0.0019	0.0013	0.0010	0.0007	-	-	-
50	0.6080	0.3715	0.2281	0.1407	0.0872	0.0543	0.0339	0.0213	0.0134	0.0085	0.0054	0.0035	0.0022	0.0014	0.0009	0.0006	0.0004	0.0003	0.0002	-	-	-	-

Present Value and Future Value Tables

Table A-4 Present value interest factors for a One-Dollar Annuity Discounted at k percent for n periods:  $PVIFA = [1 - 1/(1+k)^n] / k$

Period	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%	16%	17%	18%	19%	20%	24%	25%	30%
1	0.9901	0.9804	0.9709	0.9615	0.9524	0.9434	0.9346	0.9259	0.9174	0.9091	0.9009	0.8929	0.8850	0.8772	0.8696	0.8621	0.8547	0.8475	0.8403	0.8333	0.8065	0.8000	0.7692
2	1.9704	1.9416	1.9135	1.8861	1.8594	1.8334	1.8080	1.7833	1.7591	1.7355	1.7125	1.6901	1.6681	1.6467	1.6257	1.6052	1.5852	1.5656	1.5465	1.5278	1.4568	1.4400	1.3609
3	2.9410	2.8839	2.8286	2.7751	2.7232	2.6730	2.6243	2.5771	2.5313	2.4869	2.4437	2.4018	2.3612	2.3216	2.2832	2.2459	2.2096	2.1743	2.1399	2.1065	1.9613	1.9520	1.8161
4	3.9020	3.8077	3.7171	3.6299	3.5460	3.4651	3.3872	3.3121	3.2397	3.1699	3.1024	3.0373	2.9745	2.9137	2.8550	2.7982	2.7432	2.6891	2.6366	2.5857	2.4043	2.3616	2.1662
5	4.8534	4.7135	4.5787	4.4518	4.3295	4.2124	4.1002	3.9927	3.8897	3.7908	3.6959	3.6048	3.5172	3.4331	3.3522	3.2743	3.1993	3.1272	3.0576	2.9906	2.7454	2.6893	2.4356
6	5.7955	5.6014	5.4172	5.2421	5.0757	4.9173	4.7665	4.6229	4.4859	4.3553	4.2305	4.1114	3.9975	3.8887	3.7845	3.6847	3.5892	3.4976	3.4098	3.3255	3.0205	2.9514	2.6427
7	6.7282	6.4720	6.2303	6.0021	5.7864	5.5824	5.3893	5.2064	5.0330	4.8684	4.7122	4.5638	4.4226	4.2883	4.1604	4.0386	3.9224	3.8115	3.7057	3.6046	3.2423	3.1611	2.8021
8	7.6517	7.3255	7.0197	6.7327	6.4632	6.2098	5.9713	5.7466	5.5348	5.3349	5.1461	4.9676	4.7988	4.6389	4.4873	4.3436	4.2072	4.0776	3.9544	3.8372	3.4212	3.3289	2.9247
9	8.5660	8.1622	7.7861	7.4353	7.1078	6.8017	6.5162	6.2469	5.9952	5.7590	5.5370	5.3282	5.1317	4.9464	4.7716	4.6085	4.4508	4.3030	4.1633	4.0310	3.5655	3.4631	3.0190
10	9.4713	8.9826	8.5302	8.1109	7.7217	7.3601	7.0236	6.7101	6.4177	6.1448	5.8892	5.6502	5.4262	5.2161	5.0188	4.8332	4.6586	4.4941	4.3389	4.1925	3.6819	3.5705	3.0915
11	10.3676	9.7868	9.2526	8.7605	8.3064	7.8869	7.4987	7.1390	6.8052	6.4951	6.2065	5.9377	5.6889	5.4527	5.2337	5.0286	4.8364	4.6560	4.4865	4.3271	3.7757	3.6564	3.1473
12	11.2551	10.5753	9.9540	9.3851	8.8633	8.3838	7.9427	7.5361	7.1607	6.8137	6.4924	6.1944	5.9176	5.6603	5.4206	5.1971	4.9884	4.7932	4.6105	4.4392	3.8514	3.7251	3.1903
13	12.1337	11.3484	10.6350	9.9856	9.3936	8.8527	8.3577	7.9038	7.4869	7.1034	6.7499	6.4235	6.1218	5.8424	5.5831	5.3423	5.1183	4.9095	4.7147	4.5327	3.9124	3.7801	3.2233
14	13.0037	12.1082	11.2961	10.5631	9.8986	9.2950	8.7455	8.2442	7.7862	7.3667	6.9819	6.6282	6.3025	6.0021	5.7245	5.4675	5.2293	5.0081	4.8023	4.6106	3.9616	3.8241	3.2487
15	13.8651	12.8493	11.9379	11.1184	10.3797	9.7122	9.1079																