

**Post Graduate Diploma in Management / PGDM (International Business)**  
 Term III Term End Examination -March 2017  
Retail Banking and Financial Inclusion  
Course Code: ( DM 315 / IB 315 )

Time allowed: 2.5 hours

Total 5 pages

Maximum marks : 50

**Instructions:** Students are required to write **Roll No.** on each page of the question Paper. Writing anything other than roll no. will be treated as **Unfair Means**. In case of rough work, please use the answer sheet.

**Section A :****15 marks****Attempt any 3 questions. Each question carries 5 marks . Word limit : around 100**

1. KYC norms are prescribed by which authority for banks? What are the major objectives of such norms? What are the consequences for the bank if the KYC norms are not observed for a customer?
2. What is the impact of monetary policy on retail banks?
3. a) Tejas had an ordinary fixed deposit of Rs.20,000 with the Noida branch of a bank. He issued a cheque on his savings bank account for Rs.50,000 that had a balance of Rs.49,000 at the same branch. The cheque was dishonored by the bank for want of funds in SB account. Tejas filed a suit against bank for wrongful dishonor of cheque when sufficient funds were available with the same branch. Discuss rights and liabilities of both the parties.  
  
 b) In account of A and B, operated by either or survivor, Bank receives instructions from B to revoke the authority of A to operate the account. A issues a cheque next day. Will Bank pay this cheque issued by A ?

2.5\*2

4. a) A has following account balances with Modern Bank.

Sr	Bank and Branch	Account Name	Account	Balance (Rs.)
1	Modern Bank, Delhi	A and B	Savings	1,26,000
2	Modern Bank, Mumbai	A and B	Fixed Deposit	50,000
3	Modern Bank, Noida	A	Savings	98,000
4	Modern Bank, Mumbai	A and C	Fixed Deposit	1,00,000

If Modern Bank is liquidated, what amount will be paid by DICGC to A, B and C.

- b) Suppose you require Rs. 200,000 after 3 years at an interest rate of 12 % p.a under Deposit Certificate /Cash Certificate scheme of Bank of India. Calculate the issue price for this Deposit Certificate
  - i. if the bank compounds interest quarterly
  - ii. if the bank compounds the interest yearly

2.5\*2

5. How a banker and a customer as per banking law are defined (in general words). Elaborate on banker's two main obligations towards a customer?

**Section B :****20 marks****Attempt any 2 questions. Each question carries 10 marks. Word limit: around 200**

6. a) Detail out the factors that influence the pricing of a bank product? Give two examples each for Overt and Covert pricing.

b) Rohit's monthly gross salary is Rs.100,000. He has to pay another EMI of Rs.5000 for auto loan for 5 years till March, 2018. He is to retire in December 2038. At an interest rate of 10 percent p.a , the EMI of a Rs.1 lakh loan for a 10/15/20-year loan is Rs. 1378 / 1137 / 1032 respectively. He applied for a loan of Rs.40 lakh.

Bank X considers minimum repayment capacity at 40% of gross income and insists on 80% LTV (Loan to Value ratio). How much home loan repayment period bank will allow to Ravi. Calculate A's home loan eligibility for a flat costing Rs.30 lakh. How much EMI he will have to pay for the loan approved for the repayment period fixed.

2x 5

7. Differentiate between the following ( within 2-3 pertinent sentences each )

- i. Credit Card & Charge Card
- ii. TAD and MAD
- iii. De-dupe and Negative Credit Profile
- iv. Proprietary card and co-branded credit card
- v. Home Purchase Loan and Loan Against Property (LAP)

2x 5

8. a) What steps the Government of India has taken through banks in India for Financial Inclusion?
- b) Name major types of Priority sector loans given by Indian banks?
- c) Briefly list the types of loans given by banks in rural areas.
- d) Mention the use of CIBIL report in granting a person loan.

2.5 x 4

**Section C :****15 marks****Compulsory case , carries 15 marks . Word limit: around 500****9. GLOBAL BANK – RETAIL LIABILITY PRODUCTS**

GLOBAL BANK has become a major bank and financial services organization in the world. Its strategy of 'managing for value' emphasizes the group's unique balance of business and earnings between older, mature economies and faster-growing emerging markets.

**SOME LIABILITY PRODUCTS****SAVINGS ACCOUNT**

The GLOBAL BANK savings account offers interest at the rate of 4% p.a . As it is

targeted at primarily the upper classes, a minimum quarterly average balance of Rs 25,000 is required.

#### **Benefits Offered To Savings Account Holders**

- A joining fee waiver on the credit card.
- Special rates on home loans, personal loans and Asset Link (overdraft against shares).
- Automatic transfer of extra savings from savings account to a fixed deposit to enable to earn a higher interest.
- 0.5 per cent off on the up front processing fee for home loans and personal/professional loans and on the annual service charges for Asset Link.
- Demat account services with no account opening charges.
- Insurance and mutual fund services.
- Debit card /Credit cards accepted at 13 million merchant establishments across the world.

#### **FIXED DEPOSIT (FD)**

GLOBAL BANK offers a fixed deposit option that provides a fixed rate of return on an amount deposited with the bank for a fixed tenure. The salient features of this deposit scheme are:

- 90 per cent overdraft facility on the amount in fixed deposit.
- Internationally valid debit card.

#### **CERTIFICATE OF DEPOSIT**

- It works just like a fixed deposit, with one feature being that interest is received in advance. The minimum marketable lot for a certificate of deposit is Rs 1 lakh.
- Certificates of deposit held in a physical form are freely transferable by endorsement and delivery. Those in Demat form can be transferred as per the procedure applicable to other Demat securities.

#### **SMART MONEY ACCOUNT**

Smart Money account is a unique fixed deposit linked to a savings/current account where the customer can enjoy the higher returns of a fixed deposit and yet retain the flexibility of using money through the linked account. A Smart Money account can be opened with a minimum of Rs 25,000 and customers also get high returns and a free savings or current account. Access to funds is anytime through ATMs, Phone Banking, Internet banking or personalized cheque-books. The salient features of a Smart Money account are:

- Withdrawal up to 90 per cent through an overdraft facility yet continues to earn interest on 100 per cent of your fixed deposit.
- Debit card with a withdrawal limit of Rs 25,000 per day (higher limits for Power Vantage and GLOBAL BANK Premier accounts).

#### **CURRENT ACCOUNTS**

There are three types of current accounts offered by GLOBAL BANK

- **Business Select**
- This is a premium *service* designed to look after business and personal needs, financial services, wealth management solutions, personalized banking. Recognition that a Business Select customer deserves GLOBAL BANK provides the customer a personal relationship manager, dedicated to understanding his financial needs.

- An average quarterly balance of Rs 200,000 is required.
- GLOBAL BANK offers local expertise and global reach in handling the account, including services in export and import.
- Preferential pricing of foreign exchange rates + Business centre facilities
- Free cashier's orders payable at any GLOBAL BANK branch in the country.
- Cheques up to Rs 2,00,000 honoured irrespective of the balance in the account.
- E banking and Phone Banking ensures that access to bank balances can be made 24 hours a day, 7 days a week, without actually stepping into the bank.
- Cash, cheques and drafts can be picked up from or delivered to office free of cost.
- Withdraw up to Rs 2,00,000 per day with the special Business Select ATM card.
- Preferential foreign exchange rates for all Business Select customers, preferential rates on large volume trade services requirements.

- **Business Vantage**

Business vantage is a current account that gives businessmen a superior service advantage. In the business vantage account, an average quarterly balance of Rs 100,000 is required. Business Phone Banking and Business Doorstep Banking and more are available too. A business vantage account holder is eligible for the following facilities:

- E-banking
- Complete range of services through Phone Banking
- Free business doorstep banking
- No bounce cheque protection
- Free cheques payable at par
- Special ATM withdrawal limit of Rs 100,000 per day
- Free personalized cheque-book
- Preferential pricing on trade services
- Expertise and global reach in handling trade business
- Preferential pricing of foreign exchange rates
- Make payments to any part of the country with free telegraphic transfers,
- Free auto sweeps to transfer excess cash to a fixed deposit, free standing instructions.

- **Business Account**

A business account is a cost-effective current account. An average quarterly balance of Rs 25,000 is required in a business account. A business account holder is eligible for the following facilities:

- Free Internet banking for businesses, Free business Phone Banking
- Business Doorstep banking , Multi-branch banking
- Free special ATM card for cash withdrawal of up to Rs 75,000 per day
- Fast and efficient collection services
- Upcountry cheques drawn on any location across the country can be collected through the payments and cash management set-up
- Savings accounts for employees , AUTOPAY to credit salaries to employees' accounts
- Business banking customers can also invest in mutual funds, enjoy up to 48 days' interest free credit on an internationally valid credit card and convert shares into electronic form with HSBC's depository services.

**Required:**

1. Make a comparative table for above retail liability products taking only three most important features of each of the above products of GLOBAL BANK with those similar products of any one other existing Indian bank of your choice. Also write the target segment intended for each product of both banks as indicated in the table below.

GLOBAL BANK				Another Bank ( _____ )			
Sr.	Name of product	3 Most important features	Target segment	Sr.	Name of product	3 Most important features	Target segment
1		1)		1		1)	
		2)				2)	
		3)				3)	
2		1)		2		1)	
		2)				2)	
		3)				3)	
3		1)		3		1)	
		2)				2)	
		3)				3)	

2. Which one of the two banks has more customized products?
3. How does the customization of products give competitive edge to a bank ? Give some affirmative examples?
4. Which bank shows the innovativeness in its products. Justify your answer with examples from case material.
5. What kind of products both banks are cross selling?

3\* 5

Present value interest factor of \$1 per period at 1% for n periods, PVIF(1;n).

Period	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%	16%	17%	18%	19%	20%
1	0.990	0.980	0.971	0.962	0.952	0.943	0.935	0.926	0.917	0.909	0.901	0.893	0.885	0.877	0.870	0.862	0.855	0.847	0.840	0.833
2	0.980	0.961	0.943	0.925	0.907	0.890	0.873	0.857	0.842	0.826	0.812	0.797	0.783	0.769	0.756	0.743	0.731	0.718	0.706	0.694
3	0.971	0.942	0.915	0.889	0.864	0.840	0.816	0.794	0.772	0.751	0.731	0.712	0.693	0.675	0.658	0.641	0.624	0.609	0.593	0.579
4	0.961	0.924	0.888	0.855	0.823	0.792	0.763	0.735	0.708	0.683	0.659	0.636	0.613	0.592	0.572	0.552	0.534	0.516	0.499	0.482
5	0.951	0.906	0.863	0.822	0.780	0.744	0.713	0.681	0.650	0.621	0.593	0.567	0.543	0.519	0.497	0.476	0.456	0.437	0.419	0.402
6	0.942	0.888	0.837	0.790	0.746	0.705	0.666	0.630	0.596	0.564	0.535	0.507	0.480	0.456	0.432	0.410	0.390	0.370	0.352	0.335
7	0.933	0.871	0.813	0.760	0.711	0.665	0.623	0.583	0.547	0.513	0.482	0.452	0.425	0.400	0.376	0.354	0.333	0.314	0.296	0.279
8	0.923	0.853	0.789	0.731	0.677	0.627	0.582	0.540	0.502	0.467	0.434	0.404	0.376	0.351	0.327	0.305	0.285	0.266	0.249	0.233
9	0.914	0.837	0.766	0.703	0.645	0.592	0.544	0.500	0.460	0.424	0.391	0.361	0.333	0.308	0.284	0.263	0.243	0.225	0.209	0.194
10	0.905	0.820	0.744	0.676	0.614	0.558	0.508	0.463	0.422	0.386	0.352	0.322	0.295	0.270	0.247	0.227	0.208	0.191	0.176	0.162
11	0.896	0.804	0.722	0.650	0.585	0.527	0.475	0.429	0.388	0.350	0.317	0.287	0.261	0.237	0.215	0.195	0.178	0.162	0.148	0.135
12	0.887	0.788	0.701	0.625	0.557	0.497	0.444	0.397	0.356	0.319	0.286	0.257	0.231	0.208	0.187	0.168	0.152	0.137	0.124	0.112
13	0.879	0.773	0.681	0.601	0.530	0.469	0.415	0.368	0.326	0.290	0.258	0.229	0.204	0.182	0.163	0.145	0.130	0.116	0.104	0.093
14	0.870	0.758	0.661	0.577	0.505	0.442	0.388	0.340	0.299	0.263	0.232	0.205	0.181	0.160	0.141	0.125	0.108	0.095	0.084	0.078
15	0.861	0.743	0.642	0.555	0.481	0.417	0.362	0.315	0.275	0.239	0.209	0.183	0.160	0.140	0.123	0.108	0.095	0.084	0.074	0.065
16	0.853	0.728	0.623	0.534	0.458	0.394	0.339	0.292	0.252	0.218	0.188	0.163	0.141	0.123	0.107	0.093	0.081	0.071	0.062	0.054
17	0.844	0.714	0.605	0.513	0.436	0.371	0.317	0.270	0.231	0.198	0.170	0.146	0.125	0.108	0.093	0.080	0.069	0.060	0.052	0.045
18	0.836	0.700	0.587	0.494	0.416	0.350	0.296	0.250	0.212	0.180	0.153	0.130	0.111	0.095	0.081	0.069	0.059	0.051	0.044	0.038
19	0.828	0.686	0.570	0.475	0.396	0.331	0.277	0.232	0.194	0.164	0.138	0.116	0.098	0.083	0.070	0.060	0.051	0.043	0.037	0.031
20	0.820	0.673	0.554	0.456	0.377	0.312	0.258	0.215	0.178	0.149	0.124	0.104	0.087	0.073	0.061	0.051	0.043	0.037	0.031	0.026
25	0.780	0.610	0.478	0.375	0.295	0.233	0.184	0.146	0.116	0.092	0.074	0.059	0.047	0.038	0.030	0.024	0.020	0.016	0.013	0.010
30	0.742	0.552	0.412	0.308	0.231	0.174	0.131	0.099	0.075	0.057	0.044	0.033	0.026	0.020	0.015	0.012	0.009	0.007	0.005	0.004
35	0.706	0.500	0.355	0.253	0.181	0.130	0.094	0.068	0.049	0.036	0.026	0.019	0.014	0.010	0.008	0.006	0.004	0.003	0.002	0.002
40	0.672	0.453	0.307	0.208	0.142	0.097	0.067	0.046	0.032	0.022	0.015	0.011	0.008	0.005	0.004	0.003	0.002	0.001	0.001	0.001
50	0.608	0.372	0.228	0.141	0.087	0.054	0.034	0.021	0.013	0.009	0.005	0.003	0.002	0.001	0.001	0.001	0.000	0.000	0.000	0.000

Future value interest factor of \$1 per period at 1% for n periods, FVIF(1;n).

Period	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%	16%	17%	18%	19%	20%
1	1.010	1.020	1.030	1.040	1.050	1.060	1.070	1.080	1.090	1.100	1.110	1.120	1.130	1.140	1.150	1.160	1.170	1.180	1.190	1.200
2	1.020	1.040	1.061	1.082	1.103	1.124	1.145	1.166	1.188	1.210	1.232	1.254	1.277	1.300	1.323	1.346	1.369	1.392	1.416	1.440
3	1.030	1.061	1.093	1.125	1.158	1.191	1.225	1.260	1.295	1.331	1.368	1.405	1.443	1.482	1.521	1.561	1.602	1.643	1.685	1.728
4	1.041	1.082	1.126	1.170	1.216	1.262	1.311	1.360	1.412	1.464	1.518	1.574	1.630	1.689	1.749	1.811	1.874	1.939	2.005	2.074
5	1.051	1.104	1.159	1.217	1.276	1.338	1.403	1.469	1.539	1.611	1.685	1.762	1.842	1.925	2.011	2.100	2.192	2.288	2.386	2.488
6	1.062	1.126	1.194	1.265	1.340	1.419	1.504	1.587	1.677	1.772	1.870	1.974	2.082	2.195	2.313	2.436	2.565	2.700	2.840	2.986
7	1.072	1.149	1.230	1.316	1.407	1.504	1.606	1.714	1.828	1.949	2.076	2.211	2.353	2.502	2.660	2.826	3.001	3.185	3.379	3.583
8	1.083	1.172	1.267	1.369	1.477	1.594	1.718	1.851	1.993	2.144	2.305	2.476	2.658	2.853	3.059	3.278	3.511	3.759	4.021	4.300
9	1.094	1.195	1.305	1.423	1.551	1.689	1.838	1.999	2.172	2.358	2.558	2.773	3.004	3.252	3.518	3.803	4.108	4.435	4.785	5.160
10	1.105	1.219	1.344	1.480	1.629	1.791	1.967	2.159	2.367	2.594	2.839	3.106	3.396	3.707	4.046	4.411	4.807	5.234	5.695	6.192
11	1.116	1.243	1.384	1.539	1.716	1.898	2.105	2.332	2.580	2.853	3.152	3.479	3.836	4.226	4.652	5.117	5.624	6.177	6.777	7.430
12	1.127	1.268	1.426	1.601	1.796	2.012	2.252	2.518	2.813	3.138	3.498	3.896	4.335	4.818	5.350	5.936	6.580	7.288	8.064	8.916
13	1.138	1.294	1.469	1.665	1.886	2.133	2.410	2.720	3.066	3.452	3.883	4.363	4.898	5.492	6.153	6.886	7.699	8.599	9.596	10.699
14	1.149	1.319	1.513	1.732	1.980	2.261	2.579	2.937	3.342	3.797	4.310	4.887	5.535	6.261	7.076	7.988	9.007	10.147	11.429	12.839
15	1.161	1.346	1.558	1.801	2.079	2.397	2.759	3.172	3.642	4.177	4.785	5.474	6.254	7.138	8.137	9.266	10.539	11.974	13.590	15.407
16	1.173	1.373	1.605	1.873	2.183	2.540	2.952	3.426	3.970	4.595	5.311	6.130	7.067	8.137	9.358	10.748	12.330	14.063	16.172	18.488
17	1.184	1.400	1.653	1.948	2.292	2.693	3.159	3.700	4.328	5.054	5.895	6.866	7.986	9.276	10.761	12.468	14.426	16.672	19.244	22.186
18	1.196	1.428	1.702	2.026	2.407	2.854	3.380	3.996	4.717	5.560	6.544	7.690	9.024	10.575	12.375	14.463	16.879	19.673	22.901	26.623
19	1.208	1.457	1.754	2.107	2.527	3.026	3.617	4.316	5.142	6.116	7.263	8.613	10.197	12.056	14.232	16.777	19.748	23.214	27.252	31.948
20	1.220	1.486	1.806	2.191	2.653	3.207	3.870	4.661	5.604	6.727	8.062	9.646	11.523	13.743	16.367	19.461	23.106	27.393	32.429	38.338
25	1.282	1.641	2.094	2.666	3.386	4.292	5.427	6.848	8.623	10.835	13.585	17.000	21.231	26.462	32.919	40.874	50.658	62.669	77.388	95.396
30	1.348	1.811	2.427	3.243	4.322	5.743	7.612	10.063	13.268	17.449	23.282	29.960	39.116	50.950	66.212	85.850	111.065	143.371	184.675	237.376
35	1.417	2.000	2.814	3.946	5.316	7.686	10.677	14.785	20.414	28.102	38.575	52.800	72.069	98.100	133.176	180.314	243.503	327.997	440.701	590.668
40	1.489	2.208	3.262	4.801	7.040	10.286	14.974	21.725	31.409	45.259	65.001	93.051	132.782	188.884	267.864	378.721	533.869	750.378	1,051.668	1,469.772
50	1.645	2.692	4.384	7.107	11.467	18.420	29.457	46.902	74.358	117.391	184.565	289.002	450.736	700.233	1,083.657	1,670.704	2,566.215	3,927.357	5,988.914	9,100.438

Present value interest factor of an (ordinary) annuity of \$1 per period at i% for n periods, PVIFA(i,n).

Period	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%	16%	17%	18%	19%	20%
1	0.990	0.980	0.971	0.962	0.952	0.943	0.935	0.926	0.917	0.909	0.901	0.893	0.885	0.877	0.869	0.862	0.854	0.846	0.838	0.833
2	1.970	1.942	1.913	1.886	1.859	1.833	1.808	1.783	1.759	1.736	1.713	1.690	1.668	1.647	1.626	1.605	1.585	1.566	1.547	1.528
3	2.941	2.884	2.829	2.775	2.723	2.673	2.624	2.577	2.531	2.487	2.444	2.402	2.361	2.322	2.283	2.246	2.210	2.174	2.140	2.106
4	3.902	3.808	3.717	3.630	3.546	3.465	3.387	3.312	3.240	3.170	3.102	3.037	2.974	2.914	2.855	2.798	2.743	2.690	2.639	2.589
5	4.853	4.713	4.580	4.452	4.329	4.212	4.100	3.993	3.890	3.791	3.696	3.605	3.517	3.433	3.352	3.274	3.199	3.127	3.058	2.991
6	5.795	5.601	5.417	5.242	5.076	4.917	4.767	4.623	4.486	4.355	4.231	4.111	4.003	3.898	3.798	3.702	3.610	3.521	3.435	3.352
7	6.728	6.472	6.230	6.002	5.786	5.582	5.389	5.206	5.033	4.868	4.712	4.564	4.423	4.288	4.158	4.032	3.910	3.792	3.678	3.566
8	7.652	7.325	7.020	6.733	6.463	6.210	5.971	5.747	5.535	5.335	5.146	4.968	4.799	4.639	4.487	4.344	4.207	4.078	3.954	3.837
9	8.566	8.162	7.786	7.435	7.108	6.802	6.515	6.247	5.995	5.759	5.537	5.328	5.132	4.946	4.772	4.607	4.451	4.303	4.163	4.031
10	9.471	8.983	8.530	8.111	7.722	7.360	7.024	6.710	6.418	6.145	5.889	5.650	5.426	5.216	5.019	4.833	4.659	4.494	4.339	4.192
11	10.368	9.787	9.253	8.760	8.306	7.887	7.499	7.139	6.805	6.495	6.207	5.938	5.687	5.453	5.234	5.029	4.836	4.656	4.486	4.327
12	11.255	10.575	9.954	9.385	8.863	8.384	7.943	7.536	7.161	6.814	6.492	6.194	5.918	5.663	5.421	5.197	4.988	4.793	4.611	4.439
13	12.134	11.348	10.635	9.986	9.394	8.853	8.358	7.904	7.487	7.103	6.750	6.424	6.122	5.842	5.583	5.342	5.118	4.910	4.715	4.533
14	13.004	12.106	11.296	10.563	9.899	9.295	8.745	8.244	7.786	7.367	7.000	6.668	6.360	6.072	5.802	5.549	5.312	5.090	4.882	4.687
15	13.865	12.849	11.938	11.118	10.380	9.712	9.108	8.559	8.061	7.606	7.191	6.811	6.462	6.142	5.847	5.575	5.324	5.092	4.876	4.675
16	14.718	13.578	12.561	11.652	10.838	10.106	9.447	8.851	8.313	7.824	7.379	6.974	6.604	6.265	5.954	5.668	5.405	5.162	4.938	4.730
17	15.562	14.292	13.166	12.166	11.274	10.477	9.763	9.122	8.544	8.022	7.549	7.120	6.729	6.373	6.047	5.749	5.475	5.223	4.990	4.775
18	16.398	14.992	13.754	12.659	11.690	10.828	10.059	9.372	8.756	8.201	7.702	7.250	6.840	6.467	6.128	5.818	5.534	5.273	5.033	4.812
19	17.226	15.678	14.324	13.134	12.085	11.158	10.336	9.604	8.950	8.365	7.839	7.366	6.938	6.550	6.198	5.877	5.584	5.316	5.070	4.843
20	18.046	16.351	14.877	13.590	12.462	11.470	10.594	9.818	9.129	8.514	7.963	7.469	7.025	6.623	6.259	5.929	5.628	5.353	5.101	4.870
25	22.023	19.523	17.413	15.622	14.094	12.783	11.654	10.675	9.823	9.077	8.422	7.843	7.330	6.873	6.464	6.097	5.766	5.467	5.195	4.948
30	25.808	22.396	19.600	17.292	15.372	13.765	12.409	11.258	10.274	9.427	8.694	8.055	7.496	7.003	6.566	6.177	5.829	5.511	5.235	4.992
35	29.409	24.999	21.487	18.665	16.374	14.498	12.948	11.655	10.567	9.644	8.855	8.176	7.586	7.070	6.617	6.215	5.858	5.539	5.251	4.992
40	32.835	27.355	23.115	19.793	17.159	15.046	13.332	11.925	10.757	9.779	8.951	8.244	7.634	7.105	6.642	6.233	5.871	5.548	5.258	4.997
50	39.196	31.424	25.730	21.482	18.256	15.762	13.801	12.233	10.962	9.915	9.042	8.304	7.675	7.133	6.661	6.246	5.880	5.554	5.262	4.999

Future value interest factor of an ordinary annuity of \$1 per period at i% for n periods, FVIFA(i,n).

Period	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%	16%	17%	18%	19%	20%
1	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2	2.010	2.020	2.030	2.040	2.050	2.060	2.070	2.080	2.090	2.100	2.110	2.120	2.130	2.140	2.150	2.160	2.170	2.180	2.190	2.200
3	3.030	3.060	3.091	3.122	3.153	3.184	3.215	3.246	3.278	3.310	3.342	3.374	3.407	3.440	3.473	3.506	3.539	3.572	3.606	3.640
4	4.060	4.122	4.184	4.246	4.310	4.375	4.440	4.506	4.573	4.641	4.710	4.779	4.850	4.921	4.993	5.066	5.141	5.215	5.291	5.368
5	5.101	5.204	5.309	5.416	5.526	5.637	5.751	5.867	5.985	6.105	6.228	6.353	6.480	6.610	6.742	6.877	7.014	7.154	7.297	7.442
6	6.152	6.308	6.468	6.633	6.802	6.975	7.153	7.336	7.523	7.716	7.913	8.115	8.323	8.536	8.754	8.977	9.207	9.442	9.683	9.930
7	7.214	7.434	7.662	7.898	8.142	8.394	8.654	8.923	9.200	9.487	9.783	10.089	10.405	10.730	11.067	11.414	11.772	12.142	12.523	12.916
8	8.286	8.583	8.892	9.214	9.549	9.897	10.260	10.637	11.028	11.436	11.859	12.300	12.757	13.233	13.727	14.240	14.773	15.327	15.902	16.499
9	9.369	9.755	10.159	10.583	11.027	11.491	11.978	12.488	13.021	13.579	14.164	14.776	15.416	16.085	16.786	17.519	18.283	19.086	19.923	20.799
10	10.462	10.950	11.464	12.006	12.578	13.181	13.818	14.487	15.193	15.937	16.722	17.549	18.420	19.337	20.304	21.321	22.393	23.521	24.709	25.959
11	11.567	12.169	12.808	13.486	14.207	14.972	15.784	16.645	17.560	18.531	19.561	20.655	21.814	23.045	24.349	25.733	27.200	28.755	30.404	32.150
12	12.683	13.412	14.192	15.026	15.917	16.870	17.888	18.977	20.141	21.384	22.713	24.133	25.650	27.271	29.002	30.850	32.824	34.931	37.180	39.581
13	13.809	14.680	15.618	16.627	17.713	18.882	20.141	21.495	22.953	24.523	26.212	28.029	29.985	32.089	34.352	36.786	39.404	42.219	45.244	48.497
14	14.947	15.974	17.086	18.292	19.599	21.015	22.550	24.215	26.019	27.975	30.095	32.393	34.883	37.581	40.505	43.672	47.103	50.818	54.841	59.196
15	16.097	17.293	18.599	20.024	21.579	23.276	25.129	27.152	29.361	31.772	34.405	37.280	40.417	43.842	47.580	51.660	56.110	60.965	66.261	72.035
16	17.258	18.639	20.157	21.825	23.657	25.673	27.888	30.324	33.003	35.950	39.190	42.753	46.672	50.980	55.717	60.925	66.649	72.939	79.850	87.442
17	18.430	20.012	21.762	23.698	25.840	28.213	30.840	33.750	36.974	40.545	44.501	48.884	53.739	59.118	65.075	71.673	78.979	87.068	96.022	105.93
18	19.615	21.412	23.414	25.645	28.132	30.906	33.999	37.450	41.301	45.599	50.396	55.750	61.725	68.394	75.836	84.141	93.406	103.74	115.27	128.12
19	20.811	22.841	25.117	27.671	30.539	33.760	37.379	41.446	46.018	51.159	56.939	63.440	70.749	78.969	88.212	98.603	110.28	123.41	138.17	154.74
20	22.019	24.297	26.870	29.778	33.066	36.786	40.995	45.762	51.160	57.275	64.203	72.052	80.947	91.025	102.44	115.38	130.03	146.63	165.42	186.69
25	28.243	32.030	36.459	41.646	47.727	54.865	63.249	73.106	84.701	98.347	114.41	133.33	155.62	181.87	212.79	249.21	292.10	342.60	402.04	471.98
30	34.785	40.568	47.575	56.085	66.439	79.058	94.461	113.28	136.31	164.49	199.02	241.33	293.20	356.57	434.75	530.31	647.44	790.95	966.71	1,181.9
35	41.660	49.994	60.462	73.652	90.330	111.43	138.24	172.32	215.71	271.02	341.59	431.66	546.68	693.57	881.17	1,120.7	1,426.5	1,816.7	2,314.2	2,948.3
40	48.886	60.402	75.401	95.026	120.80	154.76	199.64	259.06	337.88	442.59	581.83	767.09	1,013.7	1,342.0	1,779.1	2,360.8	3,134.5	4,134.2	5,529.3	7,397.3
50	64.463	84.579	112.79	151.67	209.33	291.44	406.57	571.77	808.11	1,116.88	1,518.88	2,042.41	2,735.54	3,659.53	4,901.53	6,481.17	8,545.59	11,262.21	15,011.51	19,997.13