ACCT 2101 Exam 3 SOLUTION – Version 2 Fall Semester, 2011

Name	Grading Guideline	Section
	(please print clearly)	
Pledge:	:	
On my	honor, I have neither given nor recei	ived any unauthorized help on this quiz.
	(signed)	
	(signed)	

Instructions:

- 1. **You may not ask questions during the exam.** However, all notes you write to the instructor will be read and considered during the grading process.
- 2. The multiple-choice questions are based on the Class Exercises, the Problem Set, and our class discussions. The best approach for these questions is to work through them just like you did in class.
- 3. For the problems, you must show all work to receive partial credit.
- 4. Only the approved calculators may be used during the quiz.
- 5. You must write legibly or your answers will not be graded.
- 6. Do **NOT** pull this exam apart under any circumstances.
- 7. Make sure you have **10** numbered pages including the cover sheet.
- 8. Good luck!

Point Allocation:

 Problem 1:
 5.0

 Problem 2:
 2.0

 Problem 3:
 1.0

 Problem 4:
 2.0

TOTAL POINTS = $\underline{10}$ points

PROBLEM 1. MULTIPLE-CHOICE QUESTIONS ON LONG-TERM ASSETS & CURRENT LIABILITIES.

 Which of the following equipment related costs is not capitalized on a balance sheet? A. Equipment installation costs. B. Transportation costs associated with the equipment purchase. C. The equipment's purchase price. D. Equipment maintenance costs. 	
answerD	
2. On January 1, 2010, Woodstock, Inc. purchased a machine costing \$40,000. Woodstock also paid \$1,000 for transportation and installation. The expected useful life of the machine is 6 year and the residual value is \$5,000. How much is the annual depreciation expense assuming use of the straight-line depreciation method? (A)\$6,000 B. \$5,950 (40,000 + 1,000) ÷ 6 years = \$6,000 per year \$10,000 per year \$10,0	•
ANSWER _A	
3. Warren Company plans to depreciate a new building using the double declining-balance depreciation method. The building cost \$800,000. The estimated residual value of the building i \$50,000 and it has an expected useful life of 25 years. Assuming the first year's depreciation expense was recorded properly, what would be the amount of depreciation expense for the second year? A. \$64,000 B. \$30,720 C. \$32,000 Second Year: $(800,000 - 64,000) \times \sqrt[3]{35} = \sqrt[4]{58,88}$	
answerD	
4. Which of the following properly describes the accounting for a patent? A. Research and development costs associated with a patent are capitalized. F B. Patent amortization expense is accounted for within the accumulated depreciation account. F C. The patent will be amortized over its useful life. T D. Their legal life extends to 70 years after the death of the inventor. F ANSWER	<i>a</i> .

5. On January 1, 2010, Wasson Company purchased a delivery vehicle costing \$40,000. The vehicle has an estimated 6-year life and a \$4,000 residual value. Wasson estimates that the vehicle will be driven 100,000 miles. What is the vehicle's book value as of December 31, 2011 assuming Wasson uses the units-of-production depreciation method and the vehicle was driven 10,000 miles during 2010 and 18,000 miles during 2011?
A. \$25,920 B) \$29,920 $(40,000-4,000)=100,000$ units = *0.36 per unit
C. \$28,800 D \$24,800 2010: 10,000 x \$0.36= \$3,600 Book Value=
ANSWER B 2011: 18,000 x *0.36= 6,480 Cost *40,000 Total Accumber *10.080 -Accum <10,080>
6. Carter Company disposed of an asset at the end of the eighth year of its estimated life for \$10,000 cash. The asset's life was originally estimated to be 10 years. The original cost was \$50,000 with an estimated residual value of \$5,000. The asset was being depreciated using the straight-line method. What was the gain or loss on the disposal?
A. \$5,500 gain B. \$10,000 gain C. \$1,000 loss Less: Accum <36,000> [((50,000-5,000)÷10 years) x8]
D.\$4,000 loss Book Value \$ 14,000 Cash Received \$ 10,000 -Book Value < 14,000> Loss < \$4,000>
7. On March 1, 2010, Anniston Company purchased an oil well at a cost of \$1,000,000. It is estimated that 150,000 barrels of oil can be produced over the remaining life of the well and the residual value of the well will be \$100,000. During 2010, 15,000 barrels of oil were produced and 10,000 barrels were sold. Which of the following statements is correct with respect to the accounting for the oil well?
B. The inventory of oil increased \$30,000 during 2010. C. The 2010 cost of goods sold was \$30,000. D. The 2010 cost of goods sold was \$90,000. C. The 2010 cost of goods sold was \$90,000.
ANSWER B Depletion = $15,000 \times 6 = 90,000$ $0.000 \times 6 = (60,000)$
8. Which of the following properly describes the accounting for goodwill? A. Goodwill is created when it is internally generated. B. Goodwill is the difference between the amounts paid for a company relative to the book value of the company's net assets. C. Goodwill is written-down when it has been determined to be impaired. D. Goodwill is amortized over its useful life.
ANSWER

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9. The following is a partial list of account balances from the books of Probst Enterprise at the end of 2010:

Accounts payable Accounts receivable Accrued interest on short-term note Cash Wages payable Income taxes payable Inventory	\$20,500 12,300 1,200 6,500 1,300 1,900 10,000	Quick Assets = Cash + Accts Rec = 6,500 + 12,300 = 18,800 Current Liabilities = 20,500 + 1,200 + 1,300 + 1,900 = \$24,900
Based solely upon these balances, what is the	ne quick ratio?	· , · · ·

Quick Ratio =
$$\frac{18,800}{24,900} = 0.75502$$

ANSWER ______

10. Miranda Company borrowed \$100,000 cash on September 1, 2010, and signed a one-year 6%, interest-bearing note payable. Assuming no adjusting entries have been made during the year, the required adjusting entry at the end of the accounting period, December 31, 2010, would be which of the following?

A.	Interest expense	2,000	
	Interest payable		2,000
В.	Interest expense	6,000	
	Interest payable		6,000
C.	Notes payable	100,000	
	Interest expense	6,000	
	Cash		106,000
D.	Interest payable	2,000	
	Interest expense		2,000

ANSWER _ A

PROBLEM 2. BOND VALUATION & ACCOUNTING.

On January 2, 2011, the Turner Company issued \$600,000 of 13-year bonds payable. The bonds carry a contract rate of interest of 8% paid semiannually. The market interest rate was 12% on the date of issuance.

REQUIRED:

(a) Compute the market price of the bonds on the date of issuance. Show all work to receive any credit.

PV of principal: \$600,000 x PV (i=6%, n=26)

 $= $600,000 \times 0.21981 = $131,886$

PV of interest: $(\$600,000 \times 4\%) \times PVA (i=6\%, n=26)$

 $= $24,000 \times 13.00317 = 312,076$

Market Price of Bonds \$443,962

(b) Prepare the journal entry required on January 2, 2011, to record the bond issuance.

Cash 443,962 Discount on Bonds Payable 156,038

Discount on Bonds Payable 156,038

Bonds Payable 600,000

(c) In the question above, there is a difference between the bond price at issuance and the cash proceeds received. Explain the reason for this difference. That is, what is accomplished in this pricing approach?

The difference between the market price of the bonds and the face value of the bonds results from the contract rate differing from the market rate (bond yield). The market price received adjusts the contract rate to be exactly equal to the market rate. That is, the amount borrowed (cash proceeds) increases or decreases to make the effective rate on the bonds equal to the market's required rate of return.

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PROBLEM 3. GOODWILL.

The Turner Company acquired the Hanson Company for a cash price of \$2,575,000. In addition, the Turner Company assumed all liabilities of the Hanson Company as part of the acquisition. The following are the fair market values of the assets and liabilities of the Hanson Company that were acquired:

Accounts Receivable	\$ 485,000
Inventories	330,000
Property, Plant, and Equipment	539,000
Patents	583,000
Accounts Payable	299,000
Notes Payable	732,000

REQUIRED:

(1) Record the journal entry to recognize the acquisition of the Hanson Company by the Turner Company.

Accounts Re Inventories	eceivable	485,000 330,000	
Property, Pl	ant, and Equipment	539,000	
Patents		583,000	
Goodwill *		1,669,000	
	Accounts Payable		299,000
	Notes Payable		732,000
	Cash		2,575,000
* Goodwill:	Cash Paid	\$ 2,575,000	
	+ Liabilities Assumed	+ 1,031,000	
	= Total Price	\$ 3,606,000	
	- FMV of Assets	<u>- 1,937,000</u>	
	= Goodwill	<u>\$1,669,000</u>	

(2) At the end of the second year after the acquisition, the fair value of the Goodwill has decreased by \$350,000. Record the journal entry to recognize this decrease in value.

Loss from Impairment	350,000	
Goodwill		350,000

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PROBLEM 4. Short Answer Questions. Please use complete sentences (both subject and predicate) in your answers.

- (a) In our coverage of estimated liabilities, we discussed the obligation associated with retirement (pension) plans. In the context of that discussion, please answer the following questions:
 - (1) What is the difference between a defined contribution plan and a defined benefit plan?

A defined contribution plan is one in which the employer is obligated to make a fixed contribution (may be dollar amount or percentage of salary) into the employee's retirement account. The obligation ends with the transfer of the contribution amount.

A defined benefit plan is one in which the employer is obligated to contribute amounts to a retirement plan that will accumulate to an amount that will provide a specific benefit for their employees in the future. The factors affecting the required contribution are based on future events so the obligation is always being adjusted based on new projections.

(2) Why are the obligations associated with defined benefit plans so difficult to estimate? Be specific.

As indicated above, the factors that determine the contribution required to be made to a defined benefit plan are based on future events. Some of the factors that we talked about in class were: (a) years of total service provided by the employee, (2) salary at the end of the service period on which the benefit will be based, (3) future returns (interest and dividends) that will be earned by the retirement plan, (4) number of years an employee lives after retirement, and several other factors.

(b) What are junk bonds? How do you know that a bond is considered "junk"? What type of interest rate does a junk bond carry relative to other bonds?

Junk bonds are high-risk bonds – that is, bonds with a high probability of default.

Junk bonds are ones that carry a very low credit rating from one of the rating agencies (S&P, Moody's, Fitch).

Because junk bonds are so risky, they carry a very high rate of interest compared to lower-risk bonds.

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PROBLEM 4 - CONTINUED.

(c) What impact does the term of a bond generally have on its yield? Explain why.

Usually, the longer the term, the higher the yield (effective interest rate).

Reason: When the term is longer, there is more risk of default and a greater risk of inflation.

(d) Define the following terms related to bonds:

(1) Serial bond:

These are bonds where the principal is repaid over multiple periods (i.e., in a series) rather than in one lump sum at the maturity date.

(2) Debenture:

These are unsecured bonds where there are no specific assets associated with the borrowing. The lenders are making their investment decisions based on the general creditworthiness of the company.

(3) Bond yield:

This is the market rate required by investors on a particular risk category of bonds (based on the term of bond and its credit rating).

(4) Contract rate:

This is the rate of interest to be paid on the bonds. This rate of interest is stated on the bond and determines the cash payments for interest over the life of the bond.

(5) Bearer bond:

This type of bond is not registered so there is no record-keeping of ownership. Physical custody of the bond is the evidence of ownership. (Remember *Die Hard.*)

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PV = Present Value of *1

20%	0.83333 0.69444 0.57870 0.48225	0.40188 0.33490 0.27908	0.23257 0.19381 0.16151	0.13459	0.07789	0.05409	0.03756	0.02608	0.01811	0.01509	0.01048	0.00728	0.00506	0.00351	0.00293	0.00203	0.00141	0.00098	0.00082
19%	0.84034 0.70616 0.59342 0.49867	0.41905 0.35214 0.29592	0.24867 0.20897 0.17560	0.14757	0.08757	0.06184	0.04367	0.03084	0.02178	0.01830	0.01292	0.00912	0.00644	0.00455	0.00382	0.00270	0.00191	0.00135	0.000113
18%	0.84746 0.71818 0.60863 0.51579	0.43711 0.37043 0.31393	0.26604 0.22546 0.19106	0.16192 0.13722	0.09855	0.07078	0.05083	0.03651	0.02622	0.02222	0.01596	0.01146	0.00823	0.00591	0.00501	0.00360	0.00258	0.00186	0.00157
17%	0.85470 0.73051 0.62437 0.53365	0.45611 0.38984 0.33320	0.28478 0.24340 0.20804	0.17781	0.11102	0.08110	0.05925	0.04328	0.03162	0.02702	0.01974 0.01687	0.01442	0.01053	0.00770	0.00658	0.00480	0.00351	0.00256	0.00219
16%	0.86207 0.74316 0.64066 0.55229	0.47611 0.41044 0.35383	0.30503 0.26295 0.22668	0.19542 0.16846	0.12520	0.09304	0.06914	0.05139	0.03819	0.03292	0.02447	0.01818	0.01351	0.01004	0.00866	0.00643	0.00478	0.00355	0.00306
15%	0.86957 0.75614 0.65752 0.57175	0.49718 0.43233 0.37594	0.32690 0.28426 0.24718	0.21494 0.18691	0.14133	0.10686	0.04081	0.06110	0.04620	0.0401/	0.03038	0.02297	0.01737	0.01313	0.01142 0.00993	0.00864	0.00653	0.00494	0.00429
14%	0.87719 0.76947 0.67497 0.59208	0.51937 0.45559 0.39964	0.35056 0.30751 0.26974	0.23662 0.20756	0.15971	0.12289	0.09456	0.07276	0.05599	0.04911	0.03779	0.02908	0.02237	0.01722	0.01510	0.01162	0.00894	0.00688	0.00604
13%	0.88496 0.78315 0.69305 0.61332	0.54276 0.48032 0.42506	0.37616 0.33288 0.29459	0.26070	0.18068	0.14150	0.11081	0.08678	0.06796	0.05323	0.04710	0.03689	0.02889	0.02262	0.02002	0.01568	0.01228	0.00962	0.00851
12%	0.89286 0.79719 0.71178 0.63553	0.56743 0.50663 0.45235	0.40388 0.36061 0.32197	0.28748	0.20462	0.16312	0.13004	0.10367	0.08264	0.0/3/9	0.05882 0.05252	0.04689	0.03738	0.02980	0.02661 0.02376	0.02121	0.01691	0.01348	0.01204
11%	0.90090 0.81162 0.73119 0.65873	0.59345 0.53464 0.48166	0.43393 0.39092 0.35218	0.31728	0.23199	0.18829	0.15282	0.12403	0.10067	0.09069	0.07361	0.05974	0.04849	0.03935	0.03545	0.02878	0.02335	0.01896	0.01708
10%	0.90909 0.82645 0.75131 0.68301	0.62092 0.56447 0.51316	0.46651 0.42410 0.38554	0.35049	0.26333	0.21763	0.17986	0.14864	0.12285	0.11168	0.09230	0.07628	0.06304	0.05210	0.04736	0.03914	0.03235	0.02673	0.02430
%6	0.91743 0.84168 0.77218 0.70843	0.64993 0.59627 0.54703	0.50187 0.46043 0.42241	0.38753	0.29925	0.25187	0.21199	0.17843	0.15018	0.13/78	0.11597 0.10639	0.09761	0.08215	0.06915	0.06344	0.05339	0.04494	0.03783	0.03470
8%	0.92593 0.85734 0.79383 0.73503	0.68058 0.63017 0.58349	0.54027 0.50025 0.46319	0.42888	0.34046	0.29189	0.25025	0.21455	0.18394	0.15770	0.14602 0.13520	0.12519 0.11591	0.10733	0.09202	0.08520	0.07305	0.06262	0.05369	0.04603
7%	0.93458 0.87344 0.81630 0.76290	0.71299 0.66634 0.62275	0.58201 0.54393 0.50835	0.47509	0.38782	0.33873	0.29586	0.25842 0.24151	0.22571	0.19715	0.18425	0.15093	0.14056	0.12277	0.11474 0.10723	0.10022 0.09366	0.08754	0.07646	0.06678
%9	0.94340 0.89000 0.83962 0.79209	0.74726 0.70496 0.66506	0.62741 0.59190 0.55839	0.52679	0.44230	0.39365	0.35034	0.31180 0.29416	0.27751	0.24698	0.23300	0.20737	0.18456	0.16425	0.15496 0.14619	0.13791	0.12274	0.10924	0.09722
2%	0.95238 0.90703 0.86384 0.82270	0.78353 0.74622 0.71068	0.67684 0.64461 0.61391	0.58468	0.50507	0.43630	0.41552 0.39573	0.37689	0.34185	0.31007	0.29530 0.28124	0.26785	0.24295	0.22036	0.20987	0.19035	0.17266	0.15661	0.14915
4%	0.96154 0.92456 0.88900 0.85480	0.82193 0.79031 0.75992	0.73069 0.70259 0.67556	0.62460	0.57748	0.53391	0.49363	0.45639	0.42196	0.39012	0.37512 0.36069	0.34682 0.33348	0.32065	0.29646	0.28506	0.26355	0.24367	0.22529	0.20829
3%	0.97087 0.94260 0.91514 0.88849	0.86261 0.83748 0.81309	0.78941 0.76642 0.74409	0.72242 0.70138	0.66112	0.62317	0.58739	0.55368	0.52189	0.49193	0.47761 0.46369	0.45019 0.43708	0.42435	0.39999	0.38834	0.36604	0.34503	0.32523	0.30656
7%	0.98039 0.96117 0.94232 0.92385	0.90573 0.88797 0.87056	0.85349 0.83676 0.82035	0.80426 0.78849	0.75788	0.72845	0.70016 0.68643	0.67297	0.64684	0.62172	0.60953	0.58586	0.56311	0.54125	0.53063	0.51003	0.49022	0.47119	0.45289
1%	0.99010 0.98030 0.97059 0.96098	0.95147 0.94205 0.93272	0.92348 0.91434 0.90529	0.89632 0.88745 0.87866	0.86996	0.85282	0.83602 0.82774	0.81954 0.81143	0.80340	0.78757	0.77977	0.76440	0.74934 0.74192	0.73458	0.72730	0.71297 0.70591	0.69892	0.68515	0.67165
eriod	1 2 8 4	7 6 5	8 9 10	11 12 13	4 5	16	18	20 21	22	24	25 26	27 28	29	31	32 33	34 35	36	38	40

PyA = Present Value of an Annwity of *1

20%	0.83333 1.52778 2.10648	2.58873	3 32551	3.60459	3.83716	4.03097	4.32706	4.43922	4.53268	4.51057	4.07.56	4.77463	4.81219	4.84350	4.86958	4.89132	57000	4.93710	4.94759	4.95632	4.96360	4.96967	4.97472	4.98245	4.98537	4.98781	4.98984	4.99154	4.99295	4 00010	4.99510	4.99660	
19 %	0.84034 1.54650 2.13992	2.63859	3.40978	3.70570	3.95437	4.33893	4.48650	4.61050	4.71471	4.80228	4.0/360	4.98966	5.03333	5.07003	5.10086	5.126//	7,14655	5,18223	5,19515	5.20601	5.21513	5.22280	5.22924	5.23400	5,24303	5.24625	5.24895	27167.6	5.25312	2,17,2,0	5.25607	5.25815	
18%	0.84746	2.69006	3.12/1/	3.81153	4.07757	3.30302	4.65601	4.79322	4.90951	5.00806	5.09158	5.22233	5.27316	5.31624	5.35275	5.38368	5.40990	5.45095	5,46691	5,48043	5.49189	5.50160	5.50983	5.51681	5.52773	5.53197	5.53557	5.53862	5.54120	0.04000	5.54525	5.54815	
17%	0.85470 1.58521 2.20958	2.74324	3.19935	3.92238	4.20716	4.45057	4.83641	4.98839	5.11828	5.22930	5.32419	5.47461	5.53385	5.58449	5.62777	5.66476	7.09037	5.74649	5.76623	5.78311	5.79753	5.80985	5.82039	5.82939	5.84366	5.84928	5.85409	5.85820	5.86171	3.004/1	5.86727	5.87133	
16%	0.86207	2.79818	3.2/429	4.03857	4.34359	4.60654	5.02864	5.19711	5.34233	5.46753	5.5/546	5.74870	5.81785	5.87746	5.92884	5.97314	6.01133	6.07263	6.09709	6.11818	6.13636	6.15204	6.16555	6.17720	6.19590	6.20336	6.20979	6.21534	6.22012	6.22424	6.22779	6.23350	
15%	0.86957	2.85498	3.35216	4.16042	4.48732	4.77158	5.23371	5.42062	5.58315	5.72448	5.84/3/	5.95423 6.04716	6.12797	6.19823	6.25933	6.31246	6.35866	6.39884	6.46415	6.49056	6.51353	6.53351	6.55088	6.56598	6.59053	6.60046	6.60910	6.61661	6.62314	0.62881	6.63375	6.64178	
14%	0.87719	2.91371	3.43308	3.88830 4.28830	4.63886	4.94637	5.45273	5.66029	5.84236	6.00207	6.1421/	6.37286	6.46742	6.55037	6.62313	96989.9	6.74294	6.79206	6.87293	80906'9	6.93515	99096'9	6.98304	7.00266	7.03498	7.04823	7.05985	7.07005	7.07899	7.08683	7.09371	7.10504	
13%	0.88496	2.97447	3.51723	3.99/33 4.42261	4.79877	5.13166	5,68694	5.91765	6.12181	6.30249	6.46238	6.50388	6.83991	6.93797	7.02475	7.10155	7.16951	7.22966	7.32998	7.37167	7.40856	7.44120	7.47009	7.49565	7 53830	7.55602	7.57170	7.58557	7.59785	7.909.7	7.61833	7.63438	
12%	0.89286	3.03735	3,60478	4.56376	4.96764	5.32825	5.93770	6.19437	6.42355	6.62817	6.81086	6.97399	7.24967	7.36578	7.46944	7.56200	7.64465	7.71843	7.84314	7.89566	7.94255	7.98442	8.02181	8.05518	8 11159	8.13535	8.15656	8.17550	8.19241	8.20751	8.22099	8.24378	
11%	0.90090	3.10245	3.69590	4.23054	5.14612	5.53705	6.20652	6.49236	6.74987	6.98187	7.19087	7.37916	7,70162	7,83929	7.96333	8.07507	8.17574	8.26643	8 42174	8,48806	8.54780	8.60162	8.65011	8.69379	8 76860	8.80054	8.82932	8.85524	8.87859	8.89963	8.91859	8.95105	
10%	1.73554	3.16987	3.79079	4.86842	5.33493	5.75902	6.49506	6.81369	7.10336	7.36669	7.60608	7.82371	8.20141	8.36492	8.51356	8.64869	8.//154	8.88322	9 07704	9.16095	9.23722	9.30657	9.36961	9.42691	9 57638	9.56943	9.60857	9.64416	9.67651	9./0592	9.73265	9.77905	-
%6	0.91743	3.23972	3.88965	5.03295	5.53482	5.99525	6.80519	7.16073	7.48690	7.78615	8.06069	8.31256	8.75563	8.95011	9.12855	9.29224	9.44243	9.58021	9.82258	9.92897	10.02658	10.11613	10.19828	10.27365	0.21200	10.46444	10.51784	10.56682	10.61176	10.65299	10.69082	10.75736	
8%	0.92593	3.31213	3.99271	5.20637	5.74664	6.24689	7.13896	7.53608	7.90378	8.24424	8.55948	8.8513/ 9.12164	9.37189	9.60360	9.81815	0.01680	0.20074	0.3/106	0.67478	0.80998	0.93516	1.05108	1.15841	1.25778	1.43500	1.51389	1.58693	1.65457	1.71719	1.//518	1.82887	1.92461	
%/	0.93458	3.38721	4.10020	5.38929	5.97130	6.51523 7.02358	7,49867	7.94269	8.35765	8.74547	9.10/91	9.76322	0.05909	10.33560	0.59401	0.83553	1.00124	1 46933	1.65358	1.82578	1.98671	2.13711	792777	2.40904	2.64656	2.75379	2.85401	2.94767	3.03521	3.11702	3.19347	333171	
%9	0.94340																																
2 %	0.95238 1.85941 2.72325		~ ~		_	~ ~							_							_			_	_			_	_	16.54685 1		σ.	17.15909 1	
4%	0.96154 1.88609 2.77509					7,43533																											
3%	0.97087 1.91347 2.82861	3.71710																														3.11477	
7%	0.98039* 1.94156 2.88388																																
1%	0.99010 1.97040 2.94099																											_	30.10751 2			32.83469 2	
Period	2 2 8	4.	n ve	7	œ (9	11 1	12	13	4.	15																		36 3				