THE CHARTERED INSURANCE INSTITUTE

AF4

Advanced Diploma in Financial Planning

Unit AF4 – Investment planning

April 2014 examination

SPECIAL NOTICES

All questions in this paper are based on English law and practice applicable in the tax year 2013/2014, unless stated otherwise in the question, and should be answered accordingly.

It should be assumed that all individuals are domiciled and resident in the UK unless otherwise stated.

Candidates should answer based on the legislative position immediately BEFORE the 2014 budget.

Instructions

- Three hours are allowed for this paper.
- Do not begin writing until the invigilator instructs you to.
- Read the instructions on page 3 carefully before answering any questions.
- Provide the information requested on the answer book and form B.
- You are allowed to write on the inside pages of this question paper, but you must NOT
 write your name, candidate number, PIN or any other identification anywhere on this
 question paper.
- The answer book and this question paper must both be handed in personally by you to the
 invigilator before you leave the examination room. Failure to comply with this regulation will
 result in your paper not being marked and you may be prevented from entering this
 examination in the future.

Unit AF4 – Investment Planning

Instructions to candidates

Read the instructions below before answering any questions

Three hours are allowed for this paper which carries a total of 160 marks as follows:

- Section A: 80 marksSection B: 80 marks
- You are advised to spend approximately 90 minutes on Section A and 90 minutes on Section B.
- You are strongly advised to attempt all questions to gain maximum possible marks.
 The number of marks allocated to each question part is given next to the question and you should spend your time in accordance with that allocation.
- Read carefully all questions and information provided before starting to answer. Your answer will be marked strictly in accordance with the question set.
- You may find it helpful in some places to make rough notes in the answer booklet. If you do this, you should cross through these notes before you hand in the booklet.
- It is important to show all steps in a calculation, even if you have used a calculator.
- If you bring a calculator into the examination room, it must be a silent, battery or solar-powered, non-programmable calculator. The use of electronic equipment capable of being programmed to hold alphabetic or numerical data and/or formulae is prohibited. You may use a financial or scientific calculator, provided it meets these requirements.
- Tax tables are provided at the back of this question paper.
- Answer each question on a new page and leave six lines blank after each question part.

Subject to providing sufficient detail you are advised to be as brief and concise as possible, using note format and short sentences on separate lines wherever possible.

SECTION A

This question is compulsory and carries 80 marks

Question 1

Peter Jones adds to his Stocks and Shares ISA each year investing in the Abacus Growth Fund. The values and cash flows over the last year for this fund are shown in Table 1 below.

Table 1 – Abacus Growth Fund values and cash flows

Fund value 1 April 2013 (£)	Fund value 31 March 2014 (£)	Amount invested on 31 July 2013 (£)	Income paid out to Peter Jones over the period (£)
89,200	106,000	11,520	1,250

Peter has conducted his own research and is considering adding one of the following funds in Table 2 below to his ISA portfolio.

Table 2 - Funds

	Average return (before charges)	Beta	Standard deviation	Tracking error	Alpha
Jetons Fund	11.60	-	8.27	-	4.33
Pascal Fund	9.80	0.80	-	2.85	-

Both of the above funds in Table 2 invest in the same sector and the benchmark/market return over the period has been 7.8%. The risk free return over the period was 2.5%.

The Jetons Fund has an information ratio of 0.84. The Pascal Fund has a Sharpe ratio of 1.02. Both funds are only available as a clean share class with the same Ongoing Charge Figure. Neither fund has any initial or exit charges but the Pascal Fund has a performance fee.

Peter has noticed in the prospectuses that both funds are described as adopting a 'value' fund management style. Peter is unsure what this means and would like further clarification.

To gain maximum marks for calculations you must show all your workings and express your an to **two** decimal places.

- Stilldent Bounty.com (a) (i) Calculate, showing all your workings, the money weighted rate of return of the Abacus Growth Fund over the year 1 April 2013 to 31 March 2014. (9)
 - (ii) Explain the limitations of money weighted return and why it is not considered appropriate when trying to evaluate and compare different funds.

(4)

- (b) Calculate, showing all your workings, for the Jetons Fund, the range between which 95% of all distributions would have fallen. (6)
- (c) (i) Describe briefly what Alpha measures and what it indicates. (4)
 - (ii) Calculate, **showing all your workings**, the Alpha of the Pascal Fund. (5)
- (d) (i) Explain briefly to Peter why the information ratio is valid when comparing the Jetons Fund and the Pascal Fund. (3)
 - (ii) (3) Calculate, **showing all your workings**, the Sharpe ratio for the Jetons Fund.
 - (iii) Calculate, **showing all your workings**, the information ratio for the Pascal Fund. (3)
- (e) (i) Identify what other client specific information would need to be established before making a suitable investment recommendation to Peter. (10)
 - (ii) State, giving your reasons, based on your answers to parts (c) and (d) above and the information available in the case study, which fund you would recommend to Peter. (11)

Questions continue over the page

- (f) List two charges that could make up the Ongoing Charge figure (OCF) of the Pasca Fund and four charges that would not be included in the OCF.
- (g) Explain what is meant by a 'value' fund management style and state a fundamental indicator you would associate with a value share.

(6)

(h) Identify and explain five changes outside of Peter's control that would prompt the need for a portfolio review meeting. Exclude changes in the client circumstances, needs and objectives from your answer.

(10)

Total marks available for this question: 80

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Section B questions can be found on pages 8-11

Student Bounty.com **SECTION B**

Both questions in this section are compulsory and carry an overall total of 80 marks

Question 2

Tom Smith has a portfolio of equities. His largest holdings are in the shares of two house builders, Hornchurch Estates and Village Properties. Tom would like you to help him analyse the two shares. An extract from the accounts for the year ending March 2014 is shown below.

	Hornchurch Estates	Village Properties
	(£ million)	(£ million)
Fixed assets	1,300	1,100
Current assets		
Houses for sale/Inventories	3,000	100
Debtors	50	20
Cash and cash equivalents	150	80
Current liabilities	1,000	150
Long term liabilities	750	650
Total net assets	2,750	500

Tom would also like you to explain how the actions of the Bank of England Monetary Policy Committee may affect the economy and the investments that he owns.

Questions

Student Bounty.com To gain maximum marks for calculations you **must** show **all** your workings and express your answ to **two** decimal places.

- (a) (i) Explain why an increase in short term interest rates by a central bank (4) would be expected to decrease the rate of inflation.
 - (ii) State **four** principal functions of a central bank, other than using interest rates to meet an inflation target. (4)
- (b) (i) Explain briefly what is meant by the term 'cyclical stock' and explain, giving your reasons, why house builders are considered to be so. (5)
 - (ii) State the stages of an economic cycle and identify, giving your reasons, the point in the cycle which is likely to be the best time to invest in a house building firm. (8)
- (c) (i) Explain what is meant by liquidity when analysing company accounts and why this is important to house builders. (4)
 - (ii) Calculate, showing all your workings, the working capital ratio for Hornchurch Estates. (4)
 - (iii) Calculate, showing all your workings, the liquidity ratio (quick ratio) for Village Properties.
 - (iv) Explain briefly why the liquidity ratio may be more appropriate than the working capital ratio for a house builder. (4)
 - (v) State **four** limitations of using simple ratios to analyse a business. (4)

Total marks available for this question: 40

(3)

Questions continue over the page

Question 3

Colin, aged 52, has worked for the Civil Service since leaving full-time education. His job is well and provides an excellent pension. He has no spouse or dependants and is debt free.

Over the years Colin has built up a substantial portfolio of direct investments in equities and fixed interests, details of which are shown in the table below.

Asset Class	Benchmark Asset Allocation %	Index Performance %	Colin's Performance %
UK Equities	65	12	14
Overseas Equities	20	10	6
Fixed Interests	15	4	3

Colin would like your opinion on his current portfolio's performance. He has informed you that his portfolio has the same asset allocation as the benchmark.

Colin has never held any collective investment funds and would like to consider including such investments within his portfolio. He has been speaking to some friends who have recently invested in Exchange Traded Funds and would like further information on these.

Since Colin has never held any collective investment funds, he would also like to know the selection criteria relevant when making a decision about which funds to invest in.

Questions

To gain maximum marks for calculations you **must** show **all** your workings and express your an to **two** decimal places.

Student Bounty.com (a) (i) Calculate, showing all your workings, how Colin's portfolio of direct investments have performed against the benchmark. (10)(ii) Comment on how Colin's portfolio has achieved its overall return in comparison to the benchmark. (4) (b) (i) Explain briefly the mechanism by which a synthetic Exchange Traded Fund (ETF) secures its returns. (4) (ii) State the main risk Colin would be exposed to should he invest in a synthetic rather than a physical ETF and how the ETF manager could reduce (3) this risk on an ongoing basis. (iii) Explain briefly what activity ETF managers typically engage in to increase returns above that of the index they track. (3) (c) (i) List **eight** important considerations when selecting a collective investment fund. (8) (ii) State four advantages and four disadvantages of investing in a collective investment fund as opposed to direct investments. (8) Total marks available for this question: 40

The tax tables can be found on pages 13 - 19

£15,910

£15,860

	2.	
	7/1	2014
INICONAL TAY		2013/
INCOME TAX	2012/2012	2012
RATES OF TAX	2012/2013	2013/3
Starting rate for savings*	10%	10%
Basic rate	20%	20%
Higher rate	40%	40%
Additional rate	50%	45%
Starting-rate limit	£2,710*	£2,790*
Threshold of taxable income above which higher rate applies	£34,370	£32,010
Threshold of taxable income above which additional rate applies	£150,000	£150,000
Child benefit charge from 7 January 2013:		
1% of benefit for every £100 of income over	£50,000	£50,000
*Restricted to savings income only and not available if taxable non-savings in starting rate band.	ocome exceeds	
MAIN PERSONAL ALLOWANCES AND RELIEFS		
Income limit for Personal Allowance §	£100,000	£100,000
Personal Allowance (basic if born after 5 April 1948) §	£8,105	£9,440
Personal Allowance (if born between 6 April 1938 and 5 April 1948) §	£10,500	£10,500
Personal Allowance (if born before 6 April 1938) §	£10,660	£10,660
Married/civil partners (minimum) (if born before 6 April 1935) at 10% †	£2,960	£3,040
Married/civil partners (if born before 6 April 1935) at 10% †	£7,705	£7,915
Warried/Civil partifers (ii born before 6 April 1955) at 10%	17,705	17,915
Income limit for age-related allowances	£25,400	£26,100
Blind Person's Allowance	£2,100	£2,160
Enterprise Investment Scheme relief limit on £1,000,000 max	30%	30%
Seed Enterprise Investment relief limit on £100,000	50%	50%
Venture Capital Trust relief limit on £200,000 max	30%	30%
§ the Personal Allowance reduces by £1 for every £2 of income above the irrespective of age (under the income threshold).	e income limit	
† where at least one spouse/civil partner was born before 6 April 1935.		
Child Tax Credit (CTC)		
- Child element per child (maximum)	£2,690	£2,720
- family element	£545	£545

Threshold for tapered withdrawal of CTC

		13	City 2014
NATIONAL II	NSURANCE CON	NTRIBUTIONS	CHIEBOU
Class 1 Employee	Weekly	Monthly	Yearl
Lower Earnings Limit (LEL)	£109	£473	£5,668
Primary threshold	£149	£646	£7,755
Upper Accrual Point	£770	£3,337	£40,040
Upper Earnings Limit (UEL)	£797	£3,454	£41,450

	CLASS 1 EMPLOYEE CONTRIBUTIONS			
Total earnings £ per week	Contracted-in rate/contracted-out (money purchase)	Contracted-out rate (final salary)		
Up to 149.00*	Nil	Nil		
149.01 – 770.00	12%	10.6%		
770.01 – 797.00	12%	12%		
Above 797.00	2%	2%		

^{*}This is the primary threshold below which no NI contributions are payable. However, the lower earnings limit is £109 per week. This £109 to £149 band is a zero rate band introduced in order to protect lower earners' rights to contributory State benefits e.g. Basic State Pension.

Total asynings C now work	CLASS 1 EMPLOYI	CLASS 1 EMPLOYER CONTRIBUTIONS			
Total earnings £ per week	Contracted-in rate	Contract	ed-out rate		
		Final	Money		
		salary	purchase		
Below 148.00**	Nil	Nil	Nil		
148.01 – 770.00	13.8%	10.4%	13.8%		
770.01 – 797.00	13.8%	13.8%	13.8%		
Excess over 797.00	13.8%	13.8%	13.8%		

^{**} Secondary earnings threshold.

Class 2 (self-employed)	Flat rate per week £2.70 where earnings exceed £5,725 per annum.
Class 3 (voluntary)	Flat rate per week £13.55.
Class 4 (self-employed)	9% on profits between £7,755 - £41,450
	2% on profits above £41,450.

	Students 2014
PENSIONS	10
LIFETIME ALLOWANCE	ANNUAL ALLOWAN
£1,500,000	£215,000
£1,600,000	£225,000
£1,650,000	£235,000
£1,750,000	£245,000
£1,800,000	£255,000
£1,800,000	£50,000
£1,500,000	£50,000
£1,500,000	£50,000
	£1,500,000 £1,600,000 £1,650,000 £1,750,000 £1,800,000 £1,800,000

ANNUAL ALLOWANCE CHARGE

20% - 45% member's tax charge on the amount of total pension input in excess of the annual allowance.

LIFETIME ALLOWANCE CHARGE

55% of excess over lifetime allowance if taken as a lump sum.

25% of excess over lifetime allowance if taken in the form of income, which is subsequently taxed under PAYE.

CAPITAL GAINS TAX		
EXEMPTIONS	2012/2013	2013/2014
Individuals, estates etc	£10,600	£10,900
Trusts generally	£5,300	£5,450
Chattels proceeds (restricted to five thirds of proceeds exceeding		
limit)	£6,000	£6,000
TAX RATES		
Individuals:		
Up to basic rate limit	18%	18%
Above basic rate limit	28%	28%
Trustees and Personal Representatives	28%	28%
Entrepreneurs' Relief* – Gains taxed at:	10%	10%
Lifetime limit	£10,000,000	£10,000,000

^{*}For trading businesses and companies (minimum 5% employee or director shareholding) held for at least one year.

	Still	2013) 2014 2013)
		THE
INHERITANCE TAX		30
RATES OF TAX ON DEATH TRANSFERS	2012/2013	2013)
Transfers made after 5 April 2013 - Up to £325,000 - Excess over £325,000 - Lifetime transfers to and from certain trusts *For deaths after 5 April 2013, a lower rate of 36% applies where at least 10% of deceased's net estate is left to charity.	Nil 40% 20%	Nil 40% 20%
MAIN EXEMPTIONS		
Transfers to - UK-domiciled spouse/civil partner - non-UK-domiciled spouse/civil partner (from UK-domiciled spouse) - UK-registered charities	No limit £55,000 No limit	No limit £325,000 No limit
Lifetime transfers - Annual exemption per donor - Small gifts exemption	£3,000 £250	£3,000 £250
Wedding/civil partnership gifts by - parent - grandparent - other person	£5,000 £2,500 £1,000	£5,000 £2,500 £1,000
100% relief: businesses, unlisted/AIM companies, certain farmland/build 50% relief: certain other business assets Reduced tax charge on gifts within 7 years of death:	ing	

0-3

100%

3-4

80%

4-5

60%

5-6

40%

6-7

20%

- Years before death

- Inheritance Tax payable

CAR BENEFIT FOR EMPLOYEES

Student Bounty.com The charge for company car benefits is based on the carbon dioxide (CO₂) emissions. There is reduction for high business mileage users.

For 2013/2014:

- Cars that cannot emit CO₂ have a 0% charge.
- The percentage charge is 5% of the car's list price for CO₂ emissions of 75g/km or less.
- For cars with CO₂ emissions of 76g/km to 94g/km the percentage is 10%.
- For cars with CO₂ emissions of 95g/km to 99g/km the percentage is 11%.
- Cars with CO₂ emissions of 100g/km have a percentage charge of 12% and thereafter the charge increases by 1% for every complete 5g/km to a maximum of 35% (emissions of 215g/km and above).

There is an additional 3% supplement for diesel cars not meeting Euro IV emission standards. However, the maximum charge remains 35% of the car's list price.

Car fuel The benefit is calculated as the CO₂ emissions % relevant to the car and that % applied to a set figure (£21,100 for 2013/2014) e.g. car emission 100g/km = 12% on car benefit scale. 12% of £21,100 = £2,532.

- **Accessories** are, in most cases, included in the list price on which the benefit is calculated. 1.
- **List price** is reduced for capital contributions made by the employee up to £5,000. 2.
- **Car benefit** is reduced by the amount of employee's contributions towards running costs. 3.
- **Fuel scale** is reduced only if the employee makes good **all** the fuel used for private journeys.
- All car and fuel benefits are subject to employers National Insurance Contributions (Class 5. 1A) of 13.8%.

PRIVATE VEHICLES USED FOR WORK			
	2012/2013 Rates	2013/2014 Rates	
Cars			
On the first 10,000 business miles in tax year	45p per mile	45p per mile	
Each business mile above 10,000 business miles	25p per mile	25p per mile	
Motor Cycles	24p per mile	24p per mile	
Bicycles	20p per mile	20p per mile	

MAIN CAPITAL AND OTHER ALLOWANCES

2012/2013 201

	Stud	2014	-
MAIN CAPITAL AND OTHER ALLOWA	ANCES	180	
	2012/2013	2013	
Plant & machinery (excluding cars) 100% annual investment allowance (first year)	£25,000	£250,000	COM
Plant & machinery (reducing balance) per annum	18%	18%	
Patent rights & know-how (reducing balance) per annum	25%	25%	
Certain long-life assets, integral features of buildings (reducing balance)			
per annum	8%	8%	
Energy & water-efficient equipment	100%	100%	
Zero emission goods vehicles (new)	100%	100%	
Qualifying flat conversions, business premises & renovations	100%	100%	

Motor cars: Expenditure on or after 01 April 2013 (Corporation Tax) or 06 April 2013 (Income Tax)

CO₂ emissions of g/km: 95 or less* 96-130 131 or more

Capital allowance: 100% 18% 8%

> reducing balance reducing balance first year

*If new

Research & Development: Capital expenditure 100%

CORPORATION TAX				
	2012/2013	2013/2014		
Full rate	24%	23%		
Small companies rate	20%	20%		
Small companies limit	£300,000	£300,000		
Effective marginal rate	25%	23.75%		
Upper marginal limit	£1,500,000	£1,500,000		

VALUE ADDE	D TAX	
	2012/2013	2013/2014
Standard rate	20%	20%
Annual registration threshold	£77,000	£79,000
Deregistration threshold	£75,000	£77,000

		Sti	2014 2013 £
MAIN	SOCIAL SECURITY BENEF	TS	3/18
IVIAIIV	SOCIAL SECONT I BENEF	2012/2013	2013
		£	£ 2
Child Benefit	First child	20.30	20.30
	Subsequent children	13.40	13.40
	Guardian's allowance	15.55	15.90
Employment and Support Allowance	Assessment Phase		
	Age 16 – 24	Up to 56.25	Up to 56.80
	Aged 25 or over	Up to 71.00	Up to 71.70
	Main Phase		
	Work Related Activity Group	Up to	Up to 100.15
		99.15	
	Support Group	Up to	Up to 106.50
		105.05	i
Attendance Allowance	Lower rate	51.85	53.00
	Higher rate	77.45	79.15
Retirement Pension	Single	107.45	110.15
	Married	171.85	176.15
Pension Credit	Single person standard minimum		
	guarantee	142.70	145.40
	Married couple standard minimum		
	guarantee	217.90	222.05
	Maximum savings ignored in	10,000,00	40,000,00
	calculating income	10,000.00	10,000.00
Bereavement Payment (lump sur	n)	2,000.00	2,000.00
Widowed Parent's Allowance	,	105.95	108.30
Jobseekers Allowance	Age 16 - 24	56.25	56.80
	Age 25 or over	71.00	71.70
Statutory Maternity, Paternity			
and Adoption Pay		135.45	136.78
and Adoption Lay		133.43	130.70

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