

J06

Diploma in Financial Planning

Unit J06 – Investment principles, markets and environment

October 2011 examination

SPECIAL NOTICES

All questions in this paper are based on English law and practice applicable in the tax year 2011/2012, unless stated otherwise in the question, and should be answered accordingly.

Assume all individuals are domiciled, resident and ordinarily resident in the UK unless stated otherwise.

Instructions

- Two 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 J06 – Investment principles, markets and environment

Instructions to candidates

Read the instructions below before answering any questions

- **Two hours** are allowed for this paper which consists of 15 short answer questions and carries a total of 130 marks.
- 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.

Attempt ALL questions**Time: 2 hours**

1. State the limits of compensation covered by the UK Depositor Protection rules for each of the following:
- (a) deposit takers; (3)
 - (b) insurance firms; (2)
 - (c) investment firms. (3)
2. John, who has an adventurous attitude to risk, invested £75,000 in the Zeta Fund one year ago. It is now valued at £116,700.
- (a) Calculate, **showing all your workings**, the money weighted return for this investment. (3)
 - (b) State what information about the Zeta Fund you would use to assess if this is an appropriate investment for John. (4)
3. (a) Two investments, A and B, have standard deviations of 5% and 10% respectively, yet both have the same expected return.
- Based on this information alone, state which of the two investments you would recommend to your client and what the difference in standard deviation means in terms of future returns. (3)
- (b) Assuming returns from a particular investment are normally distributed around a mean of 8% and that one standard deviation is 2%, state what you would expect the lower and upper range of returns to be for:
 - (i) 68% of returns; (2)
 - (ii) 95% of returns. (2)
4. (a) State **one** example of:
- (i) an open-ended investment; (1)
 - (ii) a closed-ended investment. (1)
- (b) Explain the ways in which an open-ended fund could be affected by a substantial encashment. (4)
 - (c) Explain why a closed-ended fund is potentially more volatile than an open-ended fund with similar underlying investments. (3)

5. Duncan, a UK investor, has built up a portfolio of UK FTSE 100 shares over the last few years. He has been reading about the growth potential of emerging markets and is considering expanding his portfolio by investing directly into shares in emerging market countries.

State and explain briefly the additional risks to Duncan's portfolio that he should consider before adopting such a strategy. (6)

6. State and describe briefly the main strategies a fund manager could use with regard to ethical investment policies. (9)

7. Nathan has a holding of 2,000 shares in a national bank whose current price is £2.50 per share.

The bank offers a rights issue on the terms of 1 for 4 at £1.75 per new share.

(a) If Nathan decides to take up the option, calculate, **showing all your workings**, the expected share price immediately after the rights issue. (6)

(b) Explain briefly the effect on the bank's financial position and share price if the bank were to offer a scrip issue instead of a rights issue. (4)

8. Vitamin Boost Ltd has 250,000 shares in issue, shareholder funds of £2,000,000 and has made a net profit after interest and tax of £375,000.

Health Kick Ltd has a return on equity (ROE) of 15.6%.

(a) Calculate, **showing all your workings**, the ROE for Vitamin Boost Ltd. (2)

(b) State what the return on equity measures and comment on the results for Vitamin Boost Ltd compared to Health Kick Ltd. (3)

(c) Define Return on Capital Employed (ROCE) and explain briefly why ROCE might be a more useful indicator than ROE. (3)

9. State **five** advantages and **five** disadvantages of investing in commercial property via an open-ended investment company, rather than directly. (10)

10. Celia wishes to purchase a particular FTSE 100 share immediately, as she believes that the share price is set to rise imminently. As she has limited funds currently, she has decided to use an option until the money she wishes to invest becomes available in two months time.

(a) Explain, in detail, how an option could fulfil her requirement. (8)

(b) State **three** alternatives to options that Celia might consider to satisfy her requirements. (3)

Questions continue over the page

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11. (a) State the tax reliefs, their limits and the conditions that must be satisfied for an investor to secure maximum tax relief on an investment in a qualifying Enterprise Investment Scheme (EIS). (8)
- (b) State **three** potential disadvantages of investing in an EIS. (3)
12. Identify and explain **four** factors that can contribute to an investment manager outperforming his benchmark. (12)
13. A client is considering investing his money in either a structured product or an index tracking unit trust fund in order to gain exposure to the FTSE 100.
- List **six** advantages of investing in a unit trust as opposed to a structured product. (6)
14. Rebecca owns units in the actively managed Venus UK General Fund, a unit trust which has a Beta of 0.6. She is keen to learn about the fund's risk adjusted performance relative to the market, and if she should consider a tracker fund instead. *The average return of the Venus General Fund is 7%, the average annual risk free rate is 3% and the average market return is 9%.*
- (a) Calculate, **showing all your workings**, the Alpha for the Venus UK General Fund. (5)
- (b) Based on your answer to part (a) above, advise Rebecca, giving your reasons, on whether she should retain the Venus UK General Fund or purchase a tracker. (4)
15. Donald has £40,000 invested in a four year fixed rate deposit account paying 4.8% per annum net. He intends to run down his account drawing both capital and income annually in arrears, leaving nothing in the account at the end of the four year period.
- Calculate, **showing all your workings**, how much Donald can draw in equal annual instalments from the account. (7)

The tax tables can be found on pages 8 – 12

INCOME TAX

RATES OF TAX	2010/2011	2011/2012
Starting rate for savings*	10%	10%
Basic rate	20%	20%
Higher rate	40%	40%
Additional rate	50%	50%
Starting-rate limit	£2,440*	£2,560*
Threshold of taxable income above which higher rate applies	£37,400	£35,000
Threshold of taxable income above which additional rate applies	£150,000	£150,000

*restricted to savings income only and not available if taxable non-savings income exceeds starting rate band.

MAIN PERSONAL ALLOWANCES AND RELIEFS

Income limit for Personal Allowance §	£100,000	£100,000
Personal Allowance (basic) §	£6,475	£7,475
Personal Allowance (age 65-74) §	£9,490	£9,940
Personal Allowance (aged 75 and over) §	£9,640	£10,090
Married/civil partners (minimum) at 10% †	£2,670	£2,800
Married/civil partners (age 75 and over) at 10%	£6,965	£7,295
Income limit for age-related allowances	£22,900	£24,000
Blind Person's Allowance	£1,890	£1,980
Enterprise Investment Scheme relief limit on £500,000 max	20%	30%
Venture Capital Trust relief limit on £200,000 max	30%	30%

§ the Personal Allowance reduces by £1 for every £2 of income above the income limit irrespective of age.

† where at least one spouse/civil partner was born before 6 April 1935.

Child Tax Credit (CTC)		
- family element	£545	£545
- family element baby addition	£545	Withdrawn
CTC usually reduced by 41% of joint income (6.67% for 2010/2011) over	£50,000	£40,000

NATIONAL INSURANCE CONTRIBUTIONS

Class 1 Employee	Weekly	Monthly	Yearly
Lower Earnings Limit (LEL)	£102	£442	£5,304
Primary threshold	£139	£602	£7,225
Upper Accrual Point	£770	£3,337	£40,040
Upper Earnings Limit (UEL)	£817	£3,540	£42,475

Total earnings £ per week	CLASS 1 EMPLOYEE CONTRIBUTIONS	
	Contracted-in rate	Contracted-out rate
Up to 139.00*	Nil	Nil
139.01 – 770.00	12%	10.4%
770.01 – 817.00	12%	12%
Above 817.00	2%	2%

* This is the primary threshold below which no NI contributions are payable. However, the lower earnings limit is £102 per week. This £102 to £139 band is a zero rate band introduced in order to protect lower earners' rights to contributory State benefits e.g. Basic State Pension.

Total earnings £ per week	CLASS 1 EMPLOYER CONTRIBUTIONS		
	Contracted-in rate	Contracted-out rate	
		Final salary	Money purchase
Below 136.00**	Nil	Nil	Nil
136.01 – 770.00	13.8%	10.1%	12.4%
770.01 – 817.00	13.8%	13.8%	13.8%
Excess over 817.00	13.8%	13.8%	13.8%

** Secondary earnings threshold.

Class 2 (self-employed)	Flat rate per week £2.50 where earnings exceed £5,315 per annum.
Class 3 (voluntary)	Flat rate per week £12.60.
Class 4 (self-employed)	9% on profits between £7,225 - £42,475 plus 2% on profits above £42,475.

PENSIONS

TAX YEAR	LIFETIME ALLOWANCE	ANNUAL ALLOWANCE
2006/2007	£1,500,000	£215,000
2007/2008	£1,600,000	£225,000
2008/2009	£1,650,000	£235,000
2009/2010	£1,750,000	£245,000
2010/2011	£1,800,000	£255,000
2011/2012	£1,800,000	£50,000

ANNUAL ALLOWANCE CHARGE

20% - 50% 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.

INHERITANCE TAX

RATES OF TAX ON DEATH TRANSFERS	2010/2011	2011/2012			
Transfers made after 5 April 2011					
- Up to £325,000	Nil	Nil			
- Excess over £325,000	40%	40%			
- Lifetime transfers to and from certain trusts	20%	20%			
MAIN EXEMPTIONS					
Transfers to					
- UK-domiciled spouse/civil partner	No limit	No limit			
- non-UK-domiciled spouse/civil partner (from UK-domiciled spouse)	£55,000	£55,000			
- UK-registered charities	No limit	No limit			
Lifetime transfers					
- Annual exemption per donor	£3,000	£3,000			
- Small gifts exemption per donor	£250	£250			
Wedding/civil partnership gifts by					
- parent	£5,000	£5,000			
- grandparent	£2,500	£2,500			
- other person	£1,000	£1,000			
100% relief: businesses, unlisted/AIM companies, certain farmland/building					
50% relief: certain other business assets					
Reduced tax charge on gifts within 7 years of death:					
- Years before death	0-3	3-4	4-5	5-6	6-7
- Inheritance Tax payable	100%	80%	60%	40%	20%

CAR BENEFIT FOR EMPLOYEES

The charge for company car benefits is based on the carbon dioxide (CO₂) emissions. There is no reduction for high business mileage users.

For 2011/2012:

The percentage charge is 15% of the car's list price for CO₂ emissions at or below the qualifying level of 125g/km.

- Cars with CO₂ emissions of less than 75g/km have an appropriate percentage of 5%.
- Cars with CO₂ emissions of 76g/km to 120g/km have an appropriate percentage of 10% and thereafter the rate is 15% increasing by 1% for every 5g/km to the current maximum of 35% (emissions of 225g/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 (£18,800 for 2011/2012) e.g. car emission 155g/km = 21% on car benefit scale.
21% of £18,800 = £3,948

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

PRIVATE VEHICLES USED FOR WORK

2011/2012 Rates

Cars	
On the first 10,000 business miles in tax year	45p per mile
Each business mile above 10,000 business miles	25p per mile
Motor Cycles	24p per mile
Bicycles	20p per mile

MAIN CAPITAL AND OTHER ALLOWANCES

2011/2012

Plant & machinery (excluding cars) 100% annual investment allowance (first year)	£100,000
Plant & machinery (reducing balance) per annum	20%
Patent rights & know-how (reducing balance) per annum	25%
Certain long-life assets, integral features of buildings (reducing balance) per annum	10%
Energy & water-efficient equipment	100%
Zero emission goods vehicles (new)	100%
Qualifying flat conversions, business premises & renovations	100%

Motor cars: Expenditure on or after 01/04/09 (Corporation Tax) or 06/04/09 (Income Tax)

CO ₂ emissions of g/km:	110 or less *	111-160	161 or more
Capital allowance:	100%	20%	10%
	first year	reducing balance	reducing balance

* If new

Research & Development: Capital expenditure 100%

MAIN SOCIAL SECURITY BENEFITS

2010/2011 2011/2012

		£	£
Child Benefit	first child	20.30	20.30
	subsequent children	13.40	13.40
Employment and Support Allowance	Assessment Phase		
	Age 16 – 24	N/A	Up to 53.45
	Aged 25 or over	N/A	Up to 67.50
	Main Phase		
	Work Related Activity Group	N/A	Up to 94.25
	Support Group	N/A	Up to 99.85
Attendance Allowance	lower rate	47.80	49.30
	higher rate	71.40	73.60
Retirement Pension	single	97.65	102.15
	married	156.15	163.35
Pension Credit	single person standard minimum guarantee	132.60	137.35
	married couple standard minimum guarantee	202.40	209.70
	maximum savings ignored in calculating income	10,000.00	10,000.00
Bereavement Payment (lump sum)		2,000.00	2,000.00
Widowed Parent's allowance		97.65	100.70
Jobseekers Allowance	Age 16 - 24		53.45
	Age 25 or over		65.45

CAPITAL GAINS TAX

EXEMPTIONS	2010/2011	2011/2012
Individuals, estates etc	£10,100	£10,600
Trusts generally	£5,050	£5,300
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	18%/28%*	28%
Trustees and Personal Representatives	18%/28%*	28%
Entrepreneurs' Relief – Gains taxed at:	10%	10%
Lifetime limit	£5,000,000/ £2,000,000**	£10,000,000

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

*18% rate applies to disposals on or before 22/06/10. 28% thereafter.

**For disposals 06/04/10 to 22/06/10: £2,000,000. £5,000,000 until 05/04/11

CORPORATION TAX

	2010/2011	2011/2012
Full rate	28%	26%
Small companies rate	21%	20%
Small companies limit	£300,000	£300,000
Effective marginal rate	29.75%	27.5%
Upper marginal limit	£1,500,000	£1,500,000

VALUE ADDED TAX

	2011/2012
Standard rate	20%
Annual Registration limit	£73,000

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