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Chapter 2: The payments system

TRUE/FALSE

		LOL				
1.	Barter	is a system of	exchange in which iter	ms (or services) are exchanged for each other.		
	ANS: T This system requires a coincidence of wants in order for an exchange to occur.					
	PTS:	1	DIF: Easy	REF: Introduction		
2.	We are	e fast becoming	a 'cashless society'.			
		se of cash has d	eclined, however it renall-value payments.	mains the most commonly used payment instrument. Cash		
	PTS:	1	DIF: Easy	REF: Introduction		
3.			reement between a bu a payment order or an	yer and seller to exchange an item or service for payment other item).		
		chapter, it is in	nportant to recognise to be ayment order that sett	he distinction between the settlement of a transaction and tled the transaction.		
	PTS:	1	DIF: Easy	REF: 2.1 Overview		
4.	The cl	earing of retail	payment orders refers	to the actual payment of exchange settlement (ES) funds.		
	ANS: F Clearing of retail payment orders is the process through which ADIs agree on the net payments required to settle payment orders drawn on their depositor's accounts.					
	PTS:	1	DIF: Moderate	REF: 2.1 Overview		
5.		nyment order pr er System.	rocessing system for in	nter-ADI payments is the Reserve Bank's Information and		
	ANS: This s		s used to transfer funds	s between ADIs' exchange settlement accounts.		
	PTS:	1	DIF: Moderate	REF: 2.1 Overview		

6.	In value terms, the payments system's major role is settling the payment instructions arising from transactions in the financial markets.					
	ANS: T Table 2.1 shows that for 2012 average daily wholesale payments were \$150–167 billion versus \$60 billion in the retail system.					
	PTS: 1 DIF: Moderate REF: 2.1 Overview					
7.	Financial institutions such as banks hold funds in exchange settlement accounts with the RBA.					
	ANS: T These funds are used to satisfy the institutions' obligations under the payments system.					
	PTS: 1 DIF: Moderate REF: 2.1 Overview					
8.	The Reserve Bank of Australia is responsible for minimising payments system risks, promoting the system's efficiency and promoting competition in the market for payment services.					
	ANS: T It does this through the Payments System Board.					
	PTS: 1 DIF: Moderate REF: 2.1 Overview					
9.	Payments in the retail payment system can be described as relatively low value and low volume.					
	ANS: F These payments are low value, but high volume (i.e. numerous) compared to the wholesale payment system.					
	PTS: 1 DIF: Easy REF: 2.2 The retail payments system					
10.	Providers of payment services process payment instructions that have been authorised by their customers.					
	ANS: T Authorisation is made with either a PIN or a signature.					
	PTS: 1 DIF: Easy REF: 2.2 The retail payments system					
11.	Retail payments can be defined as payments between shops (retailers) and their customers.					
	ANS: F These are retail payments, but the term includes many other types of transactions such as the payment of salaries to employees using direct entries.					
	PTS: 1 DIF: Easy REF: 2.2 The retail payments system					

12.	All paym	nent instructi	ons are settled on a de	eferred net settlement basis.
		ail payment i	nstructions are settled me-gross-settlement.	d on a deferred net settlement basis, wholesale payment
	PTS: 1		DIF: Moderate	REF: 2.2.1 Deferred net settlement
13.	The netti		ents in the clearing pro-	ocess for retail payment orders increases settlement risk in
		ing of payme	ents greatly reduces the are exposed to.	e amount of ES funds transferred and thus also the
	PTS: 1		DIF: Moderate	REF: 2.2.1 Deferred net settlement
14.	The over	rnight delay i	n the settlement of ret	tail payments between ADIs poses settlement risk.
	ANS: T This is b business	ecause ADIs	that are owed net pay	yments do not receive the ES funds until 9 a.m. the next
	PTS: 1		DIF: Moderate	REF: 2.2.1 Deferred net settlement
15.			ct credit to your accou onthly payment to you	unt is when you are paid by your employer. An example of a our car insurer.
	ANS: T Direct cr account.	redits are pay	ments to a bank accou	unt, whereas direct debits are payments from a bank
	PTS: 1		DIF: Easy	REF: 2.2.2(a) Direct debits and credits
16.	Verificat settled.	tion of a payı	ment instruction's auth	horisation is always required before the instruction can be
			-	ue occurs after settlement. If the signature cannot be verified
	PTS: 1		DIF: Difficult	REF: 2.2.2(b) Cheques

		heque is credite	ed to your account imn around three days to al	nediately, and therefore earns interest, but access to the low verification.
	PTS:	1	DIF: Moderate	REF: 2.2.2(b) Cheques
18.	A che	que's BSB nun	nber identifies the banl	and relevant branch of its depositor.
	ANS: A che		nber identifies the banl	and relevant branch of the drawer.
	PTS:	1	DIF: Moderate	REF: 2.2.2(b) Cheques
19.	Charg	e cards are issu	ed by banks to allow o	customers to access their funds.
		e cards are issu		h as American Express and Diners Club) as payment at owing must be paid on the due date.
	PTS:	1	DIF: Moderate	REF: 2.2.2(c) Debit, credit and charge cards
20.	Debit	cards allow cus	stomers additional time	e to pay the amount due.
	ANS: Debit		nds in the customer's	deposit account only.
	PTS:	1	DIF: Moderate	REF: 2.2.2(c) Debit, credit and charge cards
21.		onic payment i	nstructions have becor	me the most important (in terms of their value) payment
	ANS: Direct chequ	debits and cre	dits are convenient and	l inexpensive and their adoption has largely replaced
	PTS:	1	DIF: Easy	REF: 2.2.3 The usage pattern of retail payment orders
22.	Credit	and debit card	s have become the mo	st frequently used non-cash retail payment instruments.
	ANS: These		widely used for relative	ely small transactions.
	PTS:	1	DIF: Moderate	REF: 2.2.3 The usage pattern of retail payment orders

17. A cheque deposited into your ADI account will not earn interest until it is verified.

23.	The increasing use of direct entries has resulted in a decline in the usage of cheques.					
	ANS: 'Direct t		heaper and usually mo	re convenient than cheques.		
	PTS:	1	DIF: Easy	REF: 2.2.3 The usage pattern of retail payment orders		
24.	•	lit card compa	` ,	m of credit cards reduced the interchange fees charged by he surcharge imposed by merchants when accepting credit		
		ange fees wer	e reduced, but the PSB or accepting credit card	removed the 'no-surcharge' rule so that merchants could payments.		
	PTS:	1	DIF: Moderate	REF: 2.2.3 The usage pattern of retail payment orders		
25.		roduction of e ayments syste		of another ADI's ATM has improved efficiency within the		
		sly the cost o		I's ATM (which is quite expensive) was not obvious. By able to make choices that minimise the fees they pay.		
	PTS:	1	DIF: Moderate	REF: Industry Insight 2.1		
26.	Real-tir	ne gross settle	ement operates during	the business day.		
	ANS: Wholes		nstructions are settled	individually throughout the day.		
	PTS:	1	DIF: Easy	REF: 2.3 The wholesale payments system		
27.	RTGS	clears paymen	its and then places ther	m in a queue for settlement.		
		ments are pla		re cleared individually throughout the day by checking the tlement occurs immediately.		
	PTS:	1	DIF: Moderate	REF: 2.3 The wholesale payments system		
28.			g' RTGS session, ADIsing eligible securities to	s will increase their ESA balances through interbank to the RBA.		
	ANS: The ES the day	A balances ar	e increased to ensure t	hey are sufficient to cope with their RTGS payments during		
	PTS:	1	DIF: Moderate	REF: 2.3.1 RTGS operating day		

29.	RTGS can face liquidity problems which result from ADIs holding insufficient ES funds to meet their overall daily RTGS payment obligations.

ANS: F

ADIs ensure they have sufficient ES funds to meet their net daily payments. However, as payments are settled individually and the order of payments is unknown, it is possible an ADI will experience a shortage of ES funds at some stage throughout the day. This is a liquidity problem.

PTS: 1 DIF: Moderate REF: 2.3.1 RTGS operating day

30. The problem of intraday illiquidity is overcome by banks being required to hold large ESA balances so they can cover their RTGS payments without relying on receipts.

ANS: F

Banks only need hold enough ES funds to cover their payment obligations by the end of the day. The RBA provides intraday repos and payment queue adjustments to ease liquidity pressures throughout the day.

PTS: 1 DIF: Difficult REF: 2.3.2 Intraday liquidity management

31. The RBA's intraday repurchase agreements facilitate the smooth flow of the RTGS.

ANS: T

At the start of the day, ADIs can sell eligible securities to the RBA on the basis that the ADI repurchase the securities later that day for the same price. This is therefore an interest-free loan of ES funds to increase ES balances and ease liquidity pressures.

PTS: 1 DIF: Moderate REF: 2.3.2 Intraday liquidity management

32. Banks earn no interest on their exchange settlement account balances.

ANS: F

The RBA pays interest equal to the cash rate less 25 basis points.

PTS: 1 DIF: Easy REF: 2.4 Management of ES funds by ADIs and the RBA

33. Banks prefer to hold their liquid assets in the money market rather than in their exchange settlement accounts.

ANS: T

Banks earn the cash rate in the overnight inter-bank market (and generally earn more than the cash rate in the main security markets), whereas they earn 25 basis points less than the cash rate on their ESA balances. Note that the overnight inter-bank market is classified as part of the money market.

PTS: 1 DIF: Moderate REF: 2.4 Management of ES funds by ADIs and the RBA

34. Banks in Australia are subject to a reserve requirement.

	ANS: F This is no longer the	case in Australia.	
	PTS: 1	DIF: Easy	REF: 2.4 Management of ES funds by ADIs and the RBA
35.	ADIs earn a margin	over the cash rate for	funds deposited in the inter-bank overnight market.
	ANS: F ADIs earn the cash r	rate for funds deposited	d in the inter-bank overnight market.
	PTS: 1	DIF: Easy	REF: 2.4 Management of ES funds by ADIs and the RBA
36.	Contagion risk refers	s to a domino effect in	itially caused by the settlement default of a single bank.
	ANS: T Contagion risk refers ultimately defaulting		ment default by one bank could lead to other banks
	PTS: 1	DIF: Moderate	REF: 2.4 Management of ES funds by ADIs and the RBA
37.	During the GFC, the	banking system reduc	eed their demand for ES funds.
			as some banks were unwilling to bear the credit risk posed nich is where banks would normally keep funds held in
	PTS: 1	DIF: Moderate	REF: 2.4 Management of ES funds by ADIs and the RBA
38.	Payments by the RB	A increase aggregate of	exchange settlement balances.

ANS: T

Since the RBA holds its own funds, payments by it are credited to ADI exchange settlement accounts.

PTS: 1 DIF: Easy REF: 2.4.1 The RBA's maintenance of ES balances

39. The RBA stabilises the financial system's liquidity by trading with ADIs to sterilise the impact on aggregate ES balances of payments to and by it.

ANS: T

The RBA's open market operations are concerned mainly with day-by-day stabilisation of aggregate ES balances to offset the impact of its transactions with the financial system, which are mainly on behalf of the government.

PTS: 1 DIF: Moderate REF: 2.4.1 The RBA's maintenance of ES balances

40. On days when the RBA makes payments to ADIs on behalf of the government it will prevent unintentional changes to the cash rate by buying securities from ADIs.

ANS: F

On these days, the RBA will sell securities to ADIs so that aggregate inter-bank overnight balances (and the cash rate) remain unchanged.

PTS: 1 DIF: Difficult REF: 2.4.1 The RBA's maintenance of ES balances

MULTIPLE CHOICE

1.	 Identify the correct statement regarding cash: A. Cash is the most commonly used payment instrument. B. Cash is frequently used for small-value payments (i.e. payments up to \$50). C. The proportion of payments made with cash has been declining. D. Cash is a payment instrument but not a payment order. E. All of these. 				
	ANS: E	PTS:	1	DIF: Moderate	REF: Introduction
2.	The account that a firm A. fund settlement a B. money settlement C. payment settlement D. exchange settlement E. None of these.	account at accou ent acco	nt ount	with the RBA is know	n as a(n):
	ANS: D	PTS:	1	DIF: Easy	REF: 2.1 Overview
3.	whereas A. DNS; RTGS B. Clearing; settlem C. DNS; settlement D. Settlement; clear E. RTGS; settlement	nent	-	n ADIs agree on their payment of ES funds.	payments system obligations
	ANS: B	PTS:	1	DIF: Easy	REF: 2.1. Overview
4.	As at 2013, real-time A. the clearinghouse B. the retail paymer C. the batch feeder D. None of these. E. All of these.	es in the nt syster	e debt (Austrac m	lear) and foreign exch	structions from: ange (SWIFT) markets
	ANS: A	PTS:	1	DIF: Difficult	REF: 2.1. Overview
5.	Inter-ADI payment of A. transfer funds be B. must be cleared by tra D. include payment E. All of these.	tween a before t nsfers o method	hey are settled of exchange set ds such as cheq	tlement funds ues and direct entry.	DEF 110
	ANS: E	PTS:	1	DIF: Moderate	REF: 2.1 Overview

6.	As at 2013, different payment systems exist for the settlement of retail and wholesale payment instructions in Australia. The wholesale payment system: A. is, in total, of less daily value than retail payment system B. settles on a real-time gross settlement basis C. settles more transactions than the retail payment system D. is used for all large transactions. E. All of these.						
	ANS: B	PTS: 1	DIF: Moderate	REF: 2.1 Overview			
7.	payment system is A. the Australian B. Austraclear C. the Payments	: n Payments Clearin	g Association	g competition and efficiency in the			
	ANS: C	PTS: 1	DIF: Easy	REF: 2.1 Overview			
8.	A. Cash, EFTPOB. EFTPOS instr	S instructions and ructions, cheques a notial markets transkets transactions.	cheques.	sis in Australia's payments system?			
	ANS: B system	PTS: 1	DIF: Moderate	REF: 2.2 The retail payments			
9.		transaction ansaction ment tverifies the transa		ent.			
	ANS: D system	PTS: 1	DIF: Moderate	REF: 2.2 The retail payments			
10.	B. includes cash,	ving institutions to , cheques and EFTI nich greatly reduces	significant settlement risk				
	ANS: C	PTS: 1	DIF: Moderate	REF: 2.2.1 Deferred net settlement			
11.	Which payment m	echanism is pre-au	thorised and verified?				

	B. Credit and debiC. EFTPOS.D. Cheques.E. None of these.	t cards.			
	ANS: A credits	PTS:	1	DIF: Easy	REF: 2.2.2 (a) Direct debits of
12.	Which payment med large groups? A. Direct entries. B. Credit and debit C. EFTPOS. D. Cheques. E. All of these.		allows organis	ations to make payme	nts to, and receive payments fro
	ANS: A credits	PTS:	1	DIF: Easy	REF: 2.2.2(a) Direct debits a
13.	 Which statement reg A. Cheques were of B. The cheque ver account for seven C. Cheques are aut D. Cheques are a volume E. Cheque payment 	once the ification eral day thorised written in	principal form a process means s. by the drawer'nstruction.	of payment order. s that funds are not cre s signature.	dited to the depositor's
	ANS: B	PTS:	1	DIF: Moderate	REF: 2.2.2(b) Cheques
14.	Which of the follow A. Cash. B. Cheques. C. Debit cards. D. Charge cards. E. Direct entries.	ing is a	retail payment	order but is not settled	l using DNS?
	E. Direct charles.				
	ANS: D charge cards	PTS:	1	DIF: Moderate	REF: 2.2.2(c) Debit, credit an
15.	ANS: D charge cards			DIF: Moderate	

A. Direct entries.

16.	Which retail paymer measured in terms of A. Cash. B. Cheques. C. Credit cards. D. Debit cards. E. Direct entry.			matic increase in usage (when
	ANS: E retail payment order	PTS: 1	DIF: Easy	REF: 2.2.3 The usage pattern of
17.	Which retail payment of transactions? A. Cash. B. Cheques. C. Credit and debit D. Direct debits. E. Direct credits.		a very high number of trans	sactions but relatively low total value
	ANS: C retail payment order	PTS: 1	DIF: Moderate	REF: 2.2.3 The usage pattern of
18.	A. It has very fewB. The main particC. Transactions ar	participants com cipants are banks e settled on a det ds between excha	ferred net settlement basis. ange settlement accounts of	
	ANS: C system	PTS: 1	DIF: Easy	REF: 2.3 The wholesale payments
19.	A. settle their DNS	S payment obliga k ES transfers an	nd sell eligible securities to t	
	ANS: B	PTS: 1	DIF: Moderate	REF: 2.3.1 RTGS operating day
20.	A. intraday repos aB. the inter-bank oC. open-market opD. the overnight m	and payment que overnight market perations and the parket and intrada	cash rate	of intraday illiquidity. These are:
	ANS: A management	PTS: 1	DIF: Easy	REF: 2.3.2 Intraday liquidity

21.	A. involves searceB. increases efficeC. reduces the an	ciency in the payment mount of ES funds A	ystem queue for offsetting nts system	g payments
	ANS: E management	PTS: 1	DIF: Moderate	REF: 2.3.2 Intraday liquidity
22.	A. likelyB. seriousC. the collapse ofD. less likely bec	the payments system of the payments systematical framework of RTGS wastating to the economy.	em	
	ANS: A by ADIs and the RI	PTS: 1 BA	DIF: Moderate	REF: 2.4 Management of ES funds
23.	9am can: A. borrow from t B. draw on its res C. purchase addit D. sell a parcel of	the RBA at the cash serves held in the over tional money-marke	rate vernight inter-bank marke et securities	neet its retail payment obligations at
	ANS: B by ADIs and the RI	PTS: 1 BA	DIF: Moderate	REF: 2.4 Management of ES funds
24.	C. earn a return o	edit at belong to banks and of 25 bps less than th	nd other financial market he cash rate ons between institutions.	dealers
	ANS: E ADIs and the RBA	PTS: 1	DIF: Easy	REF: 2.4 Management of ES funds by
25.	A. cash holdingsB. deposits in theC. ES funds	e inter-bank market	banks in Australia to incr	rease:
	ANS: C by ADIs and the RI	PTS: 1 BA	DIF: Difficult	REF: 2.4 Management of ES funds

26.	Planned changes to the settlement of retail payments will place additional liquidity pressures on ADIs. The RBA plans to help ADIs cope through: A. increasing the interest rate on ESA balances B. increasing the interest rate in the overnight inter-bank market C. intraday repos D. open repos E. requiring a liquidity reserve.				
	ANS: D by ADIs and the RB	PTS: 1	DIF: Difficult	REF: 2.4 Management of ES funds	
27.	B. once a month of C. to offset the im	pact of its own or governly	vernment transactions up veen ADIs on the cash ra know its position		
	ANS: A of ES balances	PTS: 1	DIF: Moderate	REF: 2.4.1 The RBA's maintenance	
28.	A. Payments betwB. Sales of securitC. Payments of tax	Thich of the following would put downward pressure on the cash rate? Description: Payments between ADIs. Sales of securities by the RBA to ADIs. Payments of taxation from ADIs to the RBA. Welfare payments by the RBA (on behalf of the government) to ADIs. All of these.			
	ANS: D of ES balances	PTS: 1	DIF: Difficult	REF: 2.4.1 The RBA's maintenance	

SHORT ANSWER

1. Define a payment order and explain the two steps required to process them.

ANS:

A payment order is an instruction to an ADI to transfer funds from the drawer's account to the depositor's account. Every day vast numbers of payment orders must be processed.

Orders are first cleared – this refers to the steps through which institutions agree to the terms of a transaction. In other words, the amounts that ADIs owe each other from payment orders need to be calculated and agreed to.

Settlement is the actual transfer of value for cleared amounts that completes the transaction. ADIs hold funds with the RBA in their exchange settlement accounts to facilitate these inter-ADI payments.

PTS: 1 DIF: Moderate REF: 2.1 Overview

2. Briefly describe the two broad categories of payment orders.

ANS:

The first category is wholesale payment orders. These are used to settle large financial market transactions and to transfer funds between ADIs or between ADIs and the RBA. These payments are processed through real-time gross settlement.

The second category is retail payment orders. These are payment orders by individuals and firms to settle their transactions (such as cards, cheques and direct entries) and are processed through deferred net settlement.

PTS: 1 REF: Easy REF: 2.1 Overview

3. Identify and briefly explain three differences between the retail and wholesale payment systems.

ANS:

Purpose: The wholesale system comprises payments between financial institutions that result from trading in the financial markets, payments between ADIs and payments between ADIs and the RBA. The retail system is all other payments – that is, the payments of individuals as well as normal business payments.

Settlement arrangements: The wholesale system employs real-time gross settlement, where individual payments are settled with ES funds immediately after being cleared. The retail system uses cash and payment orders such as cheques, cards and direct entry. Payment orders require behind-the-scenes processing and are settled on a deferred net basis.

Scale: In aggregate, payments within the wholesale system are low in volume but high in value, whereas the retail system is basically high-volume but low-value.

PTS: 1 DIF: Moderate REF: 2.1 Overview

4. Explain why institutions have exchange settlement accounts and describe the main features of these accounts.

ANS:

Exchange settlement accounts are accounts that financial institutions have at the RBA that enable institutions to make payments to each other, and so enable them to offer payment services to their customers. The main features of these accounts are:

- Accounts cannot be overdrawn.
- They are a safe place for funds.
- The RBA pays interest on the end-of-day balances at the cash rate less 25bps.

PTS: 1 DIF: Easy REF: 2.1 Overview

5. Explain the responsibilities of the Payments System Board.

ANS:

The Payments System Board has responsibility for:

- controlling risk in the financial system;
- promoting the efficiency of the payments system; and
- promoting competition in the market for payment services, consistent with the overall stability of the financial system.

PTS: 1 DIF: Easy REF: 2.1 Overview

6. Why do retail payment orders require authorisation and verification? How is this achieved?

ANS:

Authorisation is required to instruct the ADI to transfer funds from the drawer's account in order to settle a transaction. It can be achieved through either a signature or a personal identification number (PIN).

Verification is required to ensure the person authorising the payment order is the account holder, and so reduces fraud. A PIN verifies (as well as authorises) the payment order, whereas a signature needs to be examined. This can be by the merchant at the point of sale by checking the signature against the card, but cheques must be transported back to the drawer's bank for inspection.

PTS: 1 DIF: Easy REF: 2.2.1 Deferred net settlement

7. Briefly explain the settlement process for retail payment orders.

ANS:

Retail payment orders are settled on a net deferred basis. Netting is part of the end-of-day clearing process in which all payments to and from a particular institution are offset against each other to determine a single payment (or receipt) for each ADI. Settlement is deferred because the actual transfer of netted amounts occurs at 9 a.m. the next day through exchange settlement accounts.

PTS: 1 DIF: Easy REF: 2.2.1 Deferred net settlement

- 8. Assume that there are three banks in Australia: Alpha, Beta and Delta. On a particular day:
 - Alpha customers deposit payment instruments (such as cheques) from Beta of \$56 and from Delta of \$34.
 - Beta customers deposit payments totalling \$71 from Alpha, and \$65 from Delta.
 - Delta customers deposit payments of \$47 from Alpha and \$45 from Beta.

Use the following grid to determine the banks multilateral net obligations to the system on this day.

		Receiving bank		Total payments	
		Alpha	Beta	Delta	
	Alpha				
Paying bank	Beta				
	Delta				
Total receipts					
Less total payments					
Multilateral net position					

ANS:

		Receiving bank		Total payments	
		Alpha	Beta	Delta	
	Alpha	_	71	47	118
Paying bank	Beta	56	_	45	101
	Delta	34	65	_	99
Total receipts		90	136	92	
Less total payments		118	101	99	
Multilateral net position		-28	35	-7	

Alpha will have to pay \$28, and Delta \$7, from their exchange settlement accounts. This \$35 will go into Beta's ESA.

PTS: 1 DIF: Moderate REF: 2.2.1 Deferred net settlement

9. Explain the difference in the cost of processing cheques and EFTPOS instructions.

ANS:

The authorisation (i.e. signature) of a cheque must be verified (after settlement), whereas an EFTPOS instruction is authorised and verified simultaneously by the PIN. The extra processing required by cheques means they are a more expensive and less efficient payment mechanism.

PTS: 1 DIF: Moderate REF: 2.2 The retail payments system

10. List and describe the main types of retail payment instruments.

ANS:

Retail payment instruments include cash and payment orders (or instructions). The main retail payment orders are:

- Cheques a dated, paper-based instruction to the drawer's ADI to pay the stated party the stated sum.
- Direct entry—Direct debits and credits are pre-authorised and verified orders that are processed electronically. They allow organisations to make payments to large groups, such as salary payments, and to receive payments from large groups, such as insurance payments.
- Debit, credit and charge cards—Debit cards allow ADI customers to access funds in their accounts using ATMs and EFTPOS, whereas credit and charge cards provide the holder with credit up to a certain limit. Charge card balances must be paid in full on the monthly billing date while credit cards only require a minimum payment but will charge interest on the balance.

PTS: 1 DIF: Easy REF: 2.2.2 Payment orders

11. Give a brief description of the direct entry system.

ANS:

The direct entry system allows businesses to make arrangements with their ADIs to make payments to the accounts of large groups such as clients and employees (direct credits) and to receive payments from such groups (direct debits).

The most common examples of direct credits are salary payments to employees and social security payments by the RBA. Commonly used direct debits include loan payments to ADIs, insurance premium payments and the payment of telephone, gas and electricity bills

PTS: 1 DIF: Easy REF: 2.2.2(a) Direct debits and credits

12. Most Australian shops accept payments via EFTPOS but not by cheque. What advantages does EFTPOS (and other electronic instruments) have over cheques for the shopkeeper? What are the advantages for the customer?

ANS:

The advantages of electronic instruments to the shopkeeper are:

- Greater reliability cheques can be dishonoured or flawed in other ways.
- Greater efficiency the process of verifying signatures takes time. In the case of cheques, this means there is a delay in the funds becoming available. Also, cheques must be physically transported to the ADI for deposit.

The advantages of electronic instruments to the customer are the lower cost – ADI fees on electronic payments are lower than those on cheques. Most people also find the electronic payments to be more convenient.

PTS: 1 DIF: Moderate REF: 2.2.2(b) Cheques

13. What trends can be observed in the usage pattern of retail payment orders and what factors do you think are driving these changes?

ANS:

The main long-term trend is the shift from paper-based instructions (cheques) to electronic orders, particularly direct entry, with debit cards the preferred method (over credit cards) for consumer purchases. These changes are being driven by:

- Technology electronic payments are much cheaper to process.
- The fees (and rewards) that apply to different payment orders.
- Convenience for most people electronic payments are more convenient.

PTS: 1 DIF: Moderate REF: 2.2.3 The usage pattern of retail payment orders

14. Explain the Payments System Board's planned innovations to the retail payment system.

ANS:

The PSB aims to replace DNS with a faster and more efficient system by 2016. Its plans include:

- Direct entry payments are to be settled in cleared batches throughout the day so that settlement is mostly 'same-day'.
- The ability to settle other payments using real-time gross settlement on a 24/7 basis.
- The ability to send more remittance information with electronic transfers.
- A more efficient settlement system for cheques.

PTS: 1 DIF: Difficult REF: 2.2.3 The usage pattern of retail payment orders

15. Explain recent reforms by the PSB to credit cards, debit cards and ATMs. What has been the overall goal of these reforms?

ANS:

Reforms to credit cards included reducing interchange fees and removing the no-surcharge rule on merchants. Interchange fees are charged between institutions when processing payments. In relation to credit cards, these fees were too high and enabled the card companies to offer rewards to encourage card use. The no-surcharge rule meant that merchants could not pass on to card users the cost of accepting credit card payments.

In relation to debit cards, the PSB set a standard fee that banks could charge, which reduced the cost to users. The PSB also made explicit the cost of using 'foreign' (i.e. another ADI's) ATMs in order to encourage competition between ATM owners and to enable users to be better informed in their choice of payment methods.

The goal of these reforms is to improve the efficiency of the retail payments system by better aligning the cost to users with the cost of providing services

PTS: 1 REF: Difficult REF: 2.2.3 The usage pattern of retail payment order

16. Explain how a bank's payment for a wholesale parcel of bonds is settled and how the settlement process differs from the settlement of a retail payment order.

ANS:

A bond transaction is settled three days after the trade date. When the payment is due, it is made as a real-time gross settlement transfer of exchange settlement funds. On the due date, the payment will be queued within the RTGS system for individual processing throughout the day. When it reaches the top of the queue, it is cleared by checking the payer has sufficient ES funds, and if so, the payment is immediately settled.

Retail payment orders, on the other hand, are settled on a net deferred (i.e. overnight) basis. This involves firstly clearing the payments. At the end of the day ADIs agree on the net amounts required to settle the payment orders of their depositors. Settlement occurs at 9 a.m. the next day with a payment of the net amounts using ESAs.

PTS: 1 DIF: Moderate REF: 2.2.1 Deferred net settlement; 2.3 The wholesale payments system

17. Clearly explain how RTGS settles financial markets transactions.

ANS:

Payment instructions are received from SWIFT and Austraclear and placed in a queue within the RTGS system for individual processing throughout the day. RTGS clears each instruction by checking the payer has sufficient ES funds, and if so, the payment is immediately settled by a transfer of the specified amount of ES funds from the paying to the receiving bank.

PTS: 1 DIF: Easy REF: 2.3 The wholesale payments system

18. Describe the daily timetable for RTGS settlements.

ANS:

The daily RTGS sessions are:

- An early morning session (7.30 to 8.45 a.m.) where ADIs can make inter-bank transfers and enter into intraday repos with the RBA. The purpose of this session is to ensure ADIs have sufficient ESA funds to manage their RTGS payments throughout the day.
- DNS payment obligations are settled at 9 a.m.
- Throughout the day RTGS payments are cleared and settled individually.
- At the end of the day, ADIs can transfer ES funds to establish their desired overnight balance.
- An after-hours session settles the AUD leg of foreign exchange transactions (simultaneously with the foreign currency leg in the UK and Europe).

PTS: 1 DIF: Difficult REF: 2.3.1 RTGS operating day

19. Why is intraday liquidity management of ESAs required?

ANS:

Each day ADIs are required to hold sufficient ESA funds to meet their overall daily RTGS payment obligations. However as payments are settled individually throughout the day and the order of payments is unknown, it is possible an ADI will experience a shortage of ES funds at some stage throughout the day. This could potentially cause gridlock in RTGS and requires ADIs to manage their intraday liquidity.

PTS: 1 DIF: Moderate REF: 2.3.1 RTGS operating day

20. Explain how the RBA helps ADIs manage periods of intraday illiquidity.

ANS:

Two mechanisms are available to ADIs provided they have sufficient ES funds to meet their RTGS obligations by days' end. These are RBA repos and the auto-offset process.

An RBA repo is an interest free loan of ES funds from the RBA to the ADI. It is arranged by the RBA agreeing to purchase eligible securities on the basis that the ADI will purchase them back later in the day at the same price.

The auto-offset process within RTGS will keep payments which it was unable to clear for later retesting. It can also look for offsetting payments between two ADIs and pre-clear these payments.

PTS: 1 DIF: Easy REF: 2.3.2 Intraday liquidity management

21. What is an RBA repo? How do they help a bank to manage its intraday liquidity requirements?

ANS:

An RBA repo is a transaction in which an ADI sells securities to the RBA at the start of the day on the basis that they will be bought back for the same price later that day. They are effectively an interest-free loan of ES funds to the ADI.

RTGS places considerable intraday liquidity pressure on banks. Funds loaned through repos are received before 9 a.m. and so provides the ADI with extra ES funds to enable RTGS payments throughout the day. Figure 2.6 shows that ADIs substantially increase their ESA balances each day using repos.

PTS: 1 DIF: Moderate REF: 2.3.2 Intraday liquidity management

22. Define settlement risk and contagion risk (within the payments system).

ANS:

The main risk to the payments system is that payment instructions will not be settled because an ADI is unable to meet its obligations – this is inter-ADI settlement risk.

The failure of one ADI to settle its payments system obligations impairs the ability of other ADIs to meet their obligations. The risk that this will lead to the collapse of the payments system is known as contagion risk.

PTS: 1 DIF: Moderate REF: 2.4 Management of ES funds by ADIs and the RBA

23. What is the inter-bank overnight market?

ANS:

The inter-bank market makes up a small section of the money market that was established to provide a safe location for reserves of ES funds. It allows banks to deposit funds with one another and earn the cash rate on their overnight balances. ADIs can move funds immediately between the inter-bank market and their ESAs. Banks prefer to leave surplus funds in the overnight market because here they earn the cash rate compared to the cash rate less 25 bps in ESAs.

PTS: 1 DIF: Moderate REF: 2.4 Management of ES funds by ADIs and the RBA

24. What arrangements does the RBA offer ADIs that are unable meet their intraday repo obligations?

ANS:

The RBA will allow the ADI to repurchase the securities the following day at a price that imposes a penalty interest rate of the cash rate plus 25 bps. The penalty rate discourages ADIs from becoming reliant on the facility and means it is rarely used. The arrangement is available to ADIs that have miscalculated their ES fund requirements or are experiencing operational (as opposed to solvency) problems.

PTS: 1 DIF: Moderate REF: 2.4 Management of ES funds by ADIs and the RBA

25. An ADI calculates that it will need to increase its ES funds in order to be able to settle its payment system obligations that day. How can it do so?

ANS:

The ADI would most likely use the inter-bank market, where it can draw down its deposits with or borrow from other ADIs at the cash rate. Alternatively, the ADI could sell some of its money market securities in order to receive ES funds later that day.

PTS: 1 DIF: Moderate REF: 2.4 Management of ES funds by ADIs and the RBA

26. What are market operations?

ANS:

Market operations are when the RBA buys or sells securities with the intention of either stabilising the financial system's liquidity or to change the system's liquidity (to implement monetary policy).

PTS: 1 DIF: Easy REF: 2.4.1 The RBA's maintenance of ES balances

27. What is the impact of RBA payments on the financial system's liquidity and how is this managed?

ANS:

Transactions made by or to the RBA when it acts on its own or the government's behalf impact the balances in ES accounts. For example, on pension payment days, there is a significant transfer of funds from the government's accounts (with the RBA) to the banks. Without management, this increase in the supply of ES funds would likely decrease the overnight cash rate (which would flow through to other rates).

To avoid unintended changes in the cash rate, the RBA conducts liquidity management. This consists of market operations to offset the impact of other transactions. For example, on pension payment days, the RBA will typically sell securities to the system. These transactions are normally conducted through repurchase agreements.

PTS: 1 DIF: Moderate REF: 2.4.1 The RBA's maintenance of ES balances

28. What is the financial system's liquidity? How is it managed by the RBA?

ANS:

The financial system's liquidity can be defined as aggregate ES balances at the start of the day plus or minus the impact of payments to or from the RBA. If this is in deficit (because of payments to the RBA), ADIs would need to replenish their ESAs by drawing down funds in the inter-bank market and this could cause the cash rate to rise. However the RBA will avoid such unintentional changes to the cash rate through its market operations. In this case it would buy securities from ADIs, and the payment for these replenishes the ADIs ES funds. Likewise, if the RBA's payments to the system caused liquidity to increase, this would be offset by the RBA selling securities to the ADIs. The RBA uses the same process of market operations (generally through inter-day repos) to enact changes to the cash rate in line with its monetary policy stance.

PTS: 1 DIF: Difficult REF: 2.4.1 The RBA's maintenance of ES balances

ESSAY

1.	an ove	Distinguish between the settlement of transactions and the settlement of payment instructions. Provide an overview of the scale of payments instructions in Australia and explain how these instructions are settled.					
ANS: Essay answers will need to be individually marked.				marked.			
	PTS:	1	DIF: Moderate	REF: 2.2 The retail payments system			
2.		Describe the main retail payment instruments and how they are settled. What reforms to the retail ayment system are planned?					
	ANS: Essay	ANS: Essay answers will need to be individually marked.					
	PTS:	1	DIF: Easy	REF: 2.2 The retail payments system			
3.	3. Review the trends in the use of retail payment instruments. What factors are driving these ch						
	ANS: Essay	NNS: Ssay answers will need to be individually marked.					
	PTS:	1	DIF: Moderate	REF: 2.2 The retail payments system			
1.	Descri	be Australia's	wholesale payment sys	stem.			
	ANS: Essay	NS: say answers will need to be individually marked.					
	PTS:	1	DIF: Easy	REF: 2.3 The wholesale payments system			
5.		What are exchange settlement accounts? What is their role in the payments system and how they are nanaged by ADIs?					
	ANS: Essay	ANS: Essay answers will need to be individually marked.					
	PTS:	1	DIF: Moderate	REF: 2.3 The wholesale payments system			
5.	Discus	scuss the importance of the inter-bank overnight market to Australia's financial system.					
ANS: Essay answers will need to be individually marked.							
	PTS:	1	DIF: Moderate	REF: 2.4 Management of ES funds by ADIs and the RBA			