Financial Institutions and Markets 7th Edition Hunt Test Bank

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Chapter 2: The payments system

TRUE/FALSE

| 1. | Barter is a system of exchange in which items (or services) are exchanged for each other. | | | |
|----|--|------------------|--|---|
| | ANS: This s | | a coincidence of want | s in order for an exchange to occur. |
| | PTS: | 1 | DIF: Easy | REF: Introduction |
| 2. | We ar | e fast becomin | g a 'cashless society'. | |
| | | se of cash has o | leclined, however it re for small-value payme | mains the most commonly used payment instrument. nts. |
| | PTS: | 1 | DIF: Easy | REF: Introduction |
| 3. | | • | greement between a bu a payment order or ar | yer and seller to exchange an item or service for payment nother item). |
| | ANS: T In this chapter, it is important to recognise the distinction between the settlement of a transaction the settlement of the payment order that settled 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 | | |

required to settle payment orders drawn on their depositor's accounts.

PTS: 1 DIF: Moderate REF: 2.1 Overview

5. The payment order processing system for inter-ADI payments is the Reserve Bank's Information and Transfer System.

Clearing of retail payment orders is the process through which ADIs agree on the net payments

ANS: T

This system (RITS) is used to transfer funds 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 billion in the retail syst | | wholesale payments were \$150–167 billion versus \$60 | | |
| | PTS: 1 | OIF: Moderate | REF: 2.1 Overview | | |
| 7. | Financial institutions su | uch as banks hold fur | ds in exchange settlement accounts with the RBA. | | |
| | ANS: T These funds are used to | satisfy the institutio | ns' obligations under the payments system. | | |
| | PTS: 1 | OIF: Moderate | REF: 2.1 Overview | | |
| 8. | | | e for minimising payments system risks, promoting the ion in the market for payment services. | | |
| | ANS: T It does this through the | Payments System Bo | oard. | | |
| | PTS: 1 | DIF: Moderate | REF: 2.1 Overview | | |
| 9. | Payments in the retail p | payment system can b | be described as relatively low value and low volume. | | |
| | ANS: F These payments are low system. | v value, but high volu | me (i.e. numerous) compared to the wholesale payment | | |
| | PTS: 1 | DIF: Easy | REF: 2.2 The retail payments system | | |
| 10. | Providers of payment s customers. | ervices process paym | ent instructions that have been authorised by their | | |
| | 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 payment payment of salaries to e | | ides many other types of transactions such as the ct entries. | | |
| | PTS: 1 | OIF: Easy | REF: 2.2 The retail payments system | | |
| | | | | | |

| 12. | . All payment instructions are settled on a deferred net settlement basis. | | | | | | |
|---|---|-----------------|--|--|--|--|--|
| | ANS: F Only retail payment instructions are settled on a deferred net settlement basis, wholesale payment orders employ real-time-gross-settlement. | | | | | | |
| | PTS: | 1 | DIF: Moderate | REF: 2.2.1 Deferred net settlement | | | |
| 13. | The no | ~ . | ents in the clearing prod | eess for retail payment orders increases settlement risk in | | | |
| | | etting 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 o | vernight delay | in the settlement of ret | ail payments between ADIs poses settlement risk. | | | |
| | ANS: T This is because ADIs that are owed net payments do not receive the ES funds until 9 a.m. the nex business day. | | | | | | |
| | PTS: | 1 | DIF: Moderate | REF: 2.2.1 Deferred net settlement | | | |
| 15. | | _ | ct credit to your accour monthly payment to y | nt is when you are paid by your employer. An example of our car insurer. | | | |
| ANS: T Direct credits are payments to a bank account, whereas direct debits are payments account. | | | | nt, whereas direct debits are payments from a bank | | | |
| | PTS: | 1 | DIF: Easy | REF: 2.2.2(a) Direct debits and credits | | | |
| 16. | Verifi settled | | ment instruction's auth | orisation is always required before the instruction can be | | | |
| | ANS: F The verification of the signature on a cheque occurs after settlement. If the signature caverified the payment may be reversed. | | | | | | |
| | PTS: | 1 | DIF: Difficult | REF: 2.2.2(b) Cheques | | | |
| | | | | | | | |
| | | | | | | | |

| | ANS: F The cheque is credited to your account immediately, and therefore earns interest, but access to the funds is delayed for around three days to allow verification. | | | | | | |
|-----|--|------------------|--------------------------|--|--|--|--|
| | PTS: | 1 | DIF: Moderate | REF: 2.2.2(b) Cheques | | | |
| 18. | A che | que's BSB nun | nber identifies the bank | and relevant branch of its depositor. | | | |
| | ANS: A che | | nber identifies the bank | 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 c | sustomers to access their funds. | | | |
| | _ | e cards are issu | • • | n as American Express and Diners Club) as payment t 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. | Electro | | nstructions have becon | ne the most important (in terms of their value) payment | | | |
| | ANS: Direct cheque | debits and cree | 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 mos | 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. | | | ulted in a decline in the usage of cheques. | | | | | |
|---|-----|---|---|---|---|--|--|--|
| | | ANS: Direct | | cheaper and usually mo | ore convenient than cheques. | | | |
| | | PTS: | 1 | DIF: Easy | REF: 2.2.3 The usage pattern of retail payment orders | | | |
| | 24. | the cre | | anies, and eliminated t | m of credit cards reduced the interchange fees charged by he surcharge imposed by merchants when accepting | | | |
| | | | hange fees wer | re 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. | | ntroduction of etail payments s | - | e of another ADI's ATM has improved efficiency within | | | |
| | | ANS: T Previously the cost of using a 'foreign' ADI's ATM (which is quite expensive) was not obvious. By informing people of the cost they are better able to make choices that minimise the fees they pay. | | | | | | |
| | | PTS: | 1 | DIF: Moderate | REF: Industry Insight 2.1 | | | |
| | 26. | Real-t | ime gross settl | ement operates during | the business day. | | | |
| | | ANS: Whole | | instructions are settled | individually throughout the day. | | | |
| | | PTS: | 1 | DIF: Easy | REF: 2.3 The wholesale payments system | | | |
| | 27. | RTGS | S clears paymer | nts and then places the | m in a queue for settlement. | | | |
| | | ANS: F The payments are placed in a queue, they are cleared individually throughout the day by checking the payer has sufficient ES funds, and if so, settlement occurs immediately. | | | | | | |
| | | PTS: | 1 | DIF: Moderate | REF: 2.3 The wholesale payments system | | | |
| | 28. | | | g' RTGS session, ADIs ing eligible securities to | s will increase their ESA balances through interbank to the RBA. | | | |
| | | | | re increased to ensure t | hey are sufficient to cope with their RTGS payments | | | |
| | | 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 long | ger the case in Australia. | | | | |
| | PTS: 1 RBA | DIF: Easy | REF: 2.4 Management of ES funds by ADIs and the | | | |
| 35. | ADIs earn a m | argin over the cash rate fo | r funds deposited in the inter-bank overnight market. | | | |
| | ANS: F ADIs earn the | cash rate for funds deposi | ted in the inter-bank overnight market. | | | |
| | PTS: 1 RBA | DIF: Easy | REF: 2.4 Management of ES funds by ADIs and the | | | |
| 36. | Contagion risk | refers to a domino effect | initially caused by the settlement default of a single bank. | | | |
| | ANS: T Contagion risk refers to the risk that settlement default by one bank could lead to other banks ultimately defaulting. | | | | | |
| | PTS: 1 RBA | DIF: Moderate | REF: 2.4 Management of ES funds by ADIs and the | | | |
| 37. | During the GF | C, the banking system red | uced their demand for ES funds. | | | |
| | | | s as some banks were unwilling to bear the credit risk posed which is where banks would normally keep funds held in | | | |
| | PTS: 1 RBA | DIF: Moderate | REF: 2.4 Management of ES funds by ADIs and the | | | |
| 38. | Payments by the | he RBA increase aggregat | e exchange settlement balances. | | | |
| | ANS: T Since the RBA accounts. | holds its own funds, payı | ments by it are credited to ADI exchange settlement | | | |
| | | | | | | |

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 fir A. fund settlement a B. money settlement C. payment settlement D. exchange settlement E. None of these. | account t accour ent acco | nt unt | with the RBA is known | n as a(n): |
| | ANS: D | PTS: | 1 | DIF: Easy | REF: 2.1 Overview |
| 3. | is the process by which ADIs agree on their payments system obligation whereas is the actual payment of ES funds. A. DNS; RTGS B. Clearing; settlement C. DNS; settlement D. Settlement; clearing E. RTGS; settlement | | | | 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 paymen C. the batch feeder f D. None of these. E. All of these. | es in the it systen | debt (Austracl | ear) and foreign excha | structions from: ange (SWIFT) markets |
| | ANS: A | PTS: | 1 | DIF: Difficult | REF: 2.1. Overview |
| 5. | Inter-ADI payment orders: A. transfer funds between accounts held with ADIs B. must be cleared before they are settled C. are settled by transfers of exchange settlement funds D. include payment methods such as cheques and direct entry. E. All of these. | | | | |
| | 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. | The organisation responsible for controlling risks and promoting competition and efficiency in the payment system is: A. the Australian Payments Clearing Association B. Austraclear C. the Payments System Board D. the RBA's Payment Settlement Review Group E. SWIFT. | | | | |
| | ANS: C | PTS: 1 | DIF: Easy | REF: 2.1 Overview | |
| 8. | A. Cash, EFTPOS inB. EFTPOS instruct | instructions and chequitions, cheques and dirical markets transaction is transactions. | nes. rect entries. | is in Australia's payments system? | |
| | ANS: B system | PTS: 1 | DIF: Moderate | REF: 2.2 The retail payments | |
| 9. | | ansaction saction ent erifies the transaction | and settles the paymen | ıt. | |
| | ANS: D system | PTS: 1 | DIF: Moderate | REF: 2.2 The retail payments | |
| 10. | D. The very large number of retail payment orders: A. exposes receiving institutions to significant settlement risk B. includes cash, cheques and EFTPOS C. are netted, which greatly reduces the settlement amounts D. are settled on a same-day basis. E. All of these. | | | | |
| | ANS: C settlement | PTS: 1 | DIF: Moderate | REF: 2.2.1 Deferred net | |

| 11. | Which payment meA. Direct entries.B. Credit and debiC. EFTPOS.D. Cheques.E. None of these. | | is pre-authoris | ed and verified? | |
|-----|---|-------------------|--|--|------------------------------------|
| | ANS: A credits | PTS: | 1 | DIF: Easy | REF: 2.2.2 (a) Direct debits and |
| 12. | Which payment me large groups? A. Direct entries. B. Credit and debi C. EFTPOS. D. Cheques. E. All of these. | | allows organis | ations to make paymer | nts to, and receive payments from, |
| | ANS: A credits | PTS: | 1 | DIF: Easy | REF: 2.2.2(a) Direct debits and |
| 13. | Which statement re A. Cheques were of B. The cheque very for several days C. Cheques are au D. Cheques are a v E. Cheque paymen | once the fication | principal form process means by the drawer's astruction. | of payment order. that funds are not cred | ited to the depositor's account |
| | 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. | ring is a | retail payment | order but is not settled | using DNS? |
| | ANS: D charge cards | PTS: | 1 | DIF: Moderate | REF: 2.2.2(c) Debit, credit and |
| 15. | Which retail payme A. Cash. B. Cheques. C. Credit cards. D. Debit cards. E. Direct entry. | nt mech | anism has expe | rienced the most dram | atic decline in usage? |
| | ANS: B retail payment orde | PTS: | 1 | DIF: Easy | REF: 2.2.3 The usage pattern of |

| 16. | Which retail payment mechanism has experienced the most dramatic increase in usage (when measured in terms of the value of transactions)? A. Cash. B. Cheques. C. Credit cards. D. Debit cards. E. Direct entry. | | | | |
|-----|---|--|---|--|--|
| | 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. | | very high number of trans | actions 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 few pB. The main participC. Transactions are | participants comp ipants are banks a e settled on a defe s between exchar | rred net settlement basis. age settlement accounts of | | |
| | ANS: C payments system | PTS: 1 | DIF: Easy | REF: 2.3 The wholesale | |
| 19. | A. settle their DNS | payment obligate ES transfers and | sell eligible securities to t | | |
| | ANS: B | PTS: 1 | DIF: Moderate | REF: 2.3.1 RTGS operating day | |
| 20. | The RBA provides two mechanism to help ADIs manage period of intraday illiquidity. These are: A. intraday repos and payment queue adjustments B. the inter-bank overnight market C. open-market operations and the cash rate D. the overnight market and intraday repos E. overnight funds from the RBA and payment queue adjustments. | | | | |
| | ANS: A management | PTS: 1 | DIF: Easy | REF: 2.3.2 Intraday liquidity | |

| 21. | The auto-offset process within RTGS: A. involves searching the payment system queue for offsetting payments B. increases efficiency in the payments system C. reduces the amount of ES funds ADIs require D. keeps uncleared payments in the queue for later retesting. E. All of these. | | | | | | |
|-----|---|--|--|--|--|--|--|
| | ANS: E management | PTS: 1 | DIF: Moderate | REF: 2.3.2 Intraday liquidity | | | |
| 22. | A. likelyB. seriousC. the collapse ofD. less likely be | of the payments system occause of RTGS evastating to the econo | m | | | | |
| | ANS: A funds by ADIs an | PTS: 1 ad the RBA | DIF: Moderate | REF: 2.4 Management of ES | | | |
| 23. | 9am can: A. borrow from B. draw on its ro C. purchase add D. sell a parcel of | the RBA at the cash reserves held in the overlitional money-market | rate ernight inter-bank marke securities | meet its retail payment obligations at | | | |
| | ANS: B funds by ADIs an | PTS: 1 ad the RBA | DIF: Moderate | REF: 2.4 Management of ES | | | |
| 24. | C. earn a return | edit nat belong to banks an of 25 bps less than th | d other financial market e cash rate ons between institutions. | | | | |
| | ANS: E funds by ADIs an | PTS: 1 ad the RBA | DIF: Easy | REF: 2.4 Management of ES | | | |
| 25. | A. cash holdingB. deposits in thC. ES fundsD. reserves of n | _ | oanks in Australia to inc | erease: | | | |
| | ANS: C | PTS: 1 | DIF: Difficult | REF: 2.4 Management of ES | | | |

| 26. | 6. Planned changes to the settlement of retail payments will place additional liquidity pressures 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 PTS funds by ADIs and the RB. | | DIF: Difficult | REF: 2.4 Management of ES |
| 27. | The RBA conducts market A. to offset the impact of B. once a month only C. to offset the impact of D. secretly, so that the material E. All of these. | its own or gove transfers betwe | en ADIs on the cash rat | |
| | ANS: A PTS maintenance of ES balance | | DIF: Moderate | REF: 2.4.1 The RBA's |
| 28. | Which of the following we A. Payments between A. B. Sales of securities by C. Payments of taxation D. Welfare payments by E. All of these. | OIs. The RBA to ADI From ADIs to the | s. e RBA. | |
| | ANS: D PTS maintenance of ES balance | | DIF: Difficult | REF: 2.4.1 The RBA's |

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

ANS:

| | | Receiving bank | | | Total payments |
|---------------------------|-------|----------------|------|-------|----------------|
| | | Alpha | Beta | Delta | |
| Paying bank | Alpha | _ | 71 | 47 | 118 |
| | 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

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ESSAY

1. 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.

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 payment system are planned?

ANS:

Essay answers will need to be individually marked.

PTS: 1

DIF: Easy

REF: 2.2 The retail payments system

3. Review the trends in the use of retail payment instruments. What factors are driving these changes?

ANS:

Essay answers will need to be individually marked.

PTS: 1

DIF: Moderate

REF: 2.2 The retail payments system

4. Describe Australia's wholesale payment system.

ANS:

Essay 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 managed by ADIs?

ANS:

Essay answers will need to be individually marked.

PTS: 1

DIF: Moderate

REF: 2.3 The wholesale payments system

6. Discuss the importance of the inter-bank overnight market to Australia's financial system.

ANS:

Essay answers will need to be individually marked.

PTS: 1 RBA

DIF: Moderate

REF: 2.4 Management of ES funds by ADIs and the