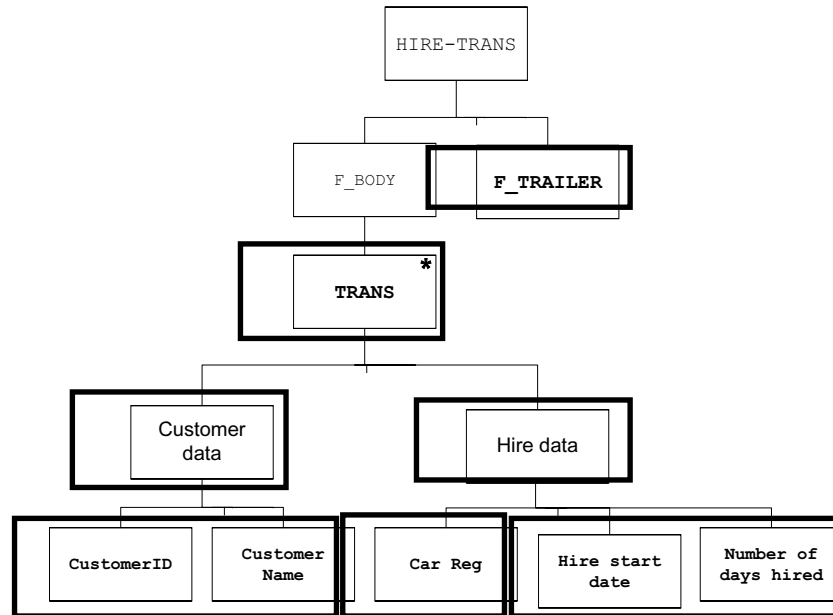


QUESTION 1.



3 (a)



Mark as follows:

Label F_TRAILER

1

Label TRANS

1

Customer box (Accept label Customer)

1

Hire box (Accept label Hire)

1

Customer fields : Customer Name, CustomerID/IDnumber

1

Hire fields: Car Reg

1

Hire fields: Hire start date, Number of days hired

1

accept level 5 fields in any order

Ignore parent



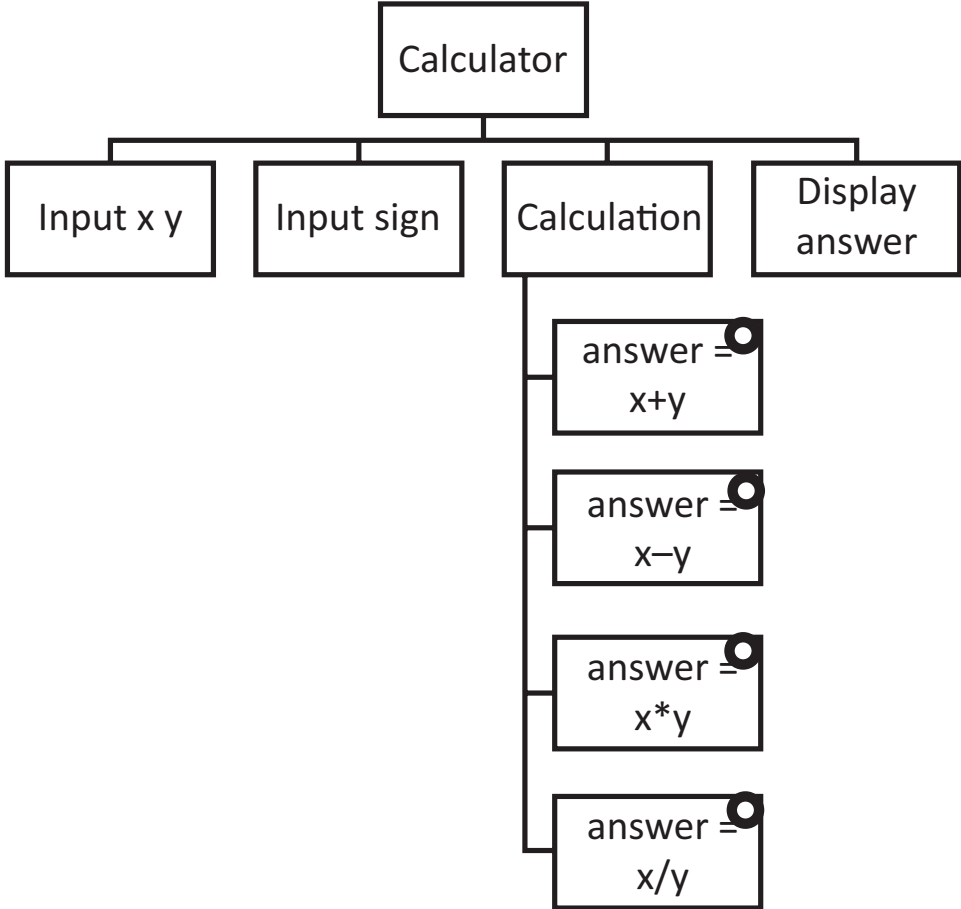
Question	Answer										
(b)	<pre> graph TD CAR_REPORT[CAR_REPORT] --> CAR[CAR *] CAR -- "No hires" --> NO_HIRE[NO_HIRE] CAR -- "One or more hires" --> CAR_HIRE[CAR_HIRE] NO_HIRE --- SelectionBox1[] CAR_HIRE --- SelectionBox1 SelectionBox1 --- Box1[] Box1 --- Car_registration[Car registration] Box1 --- HIRE_LIST[HIRE_LIST] Box1 --- Car_total[Car total] HIRE_LIST --- HIRE[HIRE *] HIRE --- Box2[] Box2 --- Start_date[Start date] Box2 --- Number_of_days[Number of days] </pre> <i>Mark as follows:</i> <table> <tr> <td>Selection symbol x 2 (Car-hire / No car-hire)</td> <td>1</td> </tr> <tr> <td>Labelling for <u>CAR_HIRE</u> / <u>NO_HIRE</u> (accept similar labels*)</td> <td>1</td> </tr> <tr> <td>Labelling for <u>Car registration</u> and Car total / Total hires</td> <td>1</td> </tr> <tr> <td>Iteration symbol for <u>HIRE</u> (accept in <u>HIRE_LIST</u> as a BOD)</td> <td>1</td> </tr> <tr> <td>Labelling for start date and number of days (as per diagram)</td> <td>1</td> </tr> </table> * For <u>CAR_HIRE</u> label: Accept: Hires / hired / Car data / hire data / hire record / one or more hires	Selection symbol x 2 (Car-hire / No car-hire)	1	Labelling for <u>CAR_HIRE</u> / <u>NO_HIRE</u> (accept similar labels*)	1	Labelling for <u>Car registration</u> and Car total / Total hires	1	Iteration symbol for <u>HIRE</u> (accept in <u>HIRE_LIST</u> as a BOD)	1	Labelling for start date and number of days (as per diagram)	1
Selection symbol x 2 (Car-hire / No car-hire)	1										
Labelling for <u>CAR_HIRE</u> / <u>NO_HIRE</u> (accept similar labels*)	1										
Labelling for <u>Car registration</u> and Car total / Total hires	1										
Iteration symbol for <u>HIRE</u> (accept in <u>HIRE_LIST</u> as a BOD)	1										
Labelling for start date and number of days (as per diagram)	1										

Page 7	Mark Scheme
	Cambridge International A Level – May/June 2016



Question	Answer	Marks
1	1 mark for each completed statement <pre> graph LR A((Window closed)) -- "Temperature > 20° C" --> B((Window half open)) B -- "Temperature < 15 °C" --> A B -- "Temperature > 30°C" --> C((Window fully open)) C -- "Temperature < 25° C" --> B </pre>	7

Question	Answer	Marks
2(a)(i)	Asterisk (*) in the corner/top of the box(es)	1
2(a)(ii)	Circle (o) in the corner/top of box(es)	1

Question	Answer	Marks
2(b)	1 mark per bullet • Inputting 2 numbers, stored in x and y • Inputting sign Selection used for all four calculations • .. underneath an appropriate box at level 1 • Displaying the answer For example:  <pre> graph TD Calulator[Calulator] --> Input_xy[Input x y] Calulator --> Input_sign[Input sign] Calulator --> Calculation[Calculation] Calulator --> Display_answer[Display answer] Calculation --> Answer1["answer = x+y"] Calculation --> Answer2["answer = x-y"] Calculation --> Answer3["answer = x*y"] Calculation --> Answer4["answer = x/y"] </pre>	5

Question	Answer	Marks
1(a)	1 mark per bullet point: • OpenAccount, AccountLifetime and CloseAccount below Bank Account Transactions below AccountLifetime • ...with iteration • Reopen Account? below Close Account • FlagToReopen and DeletePermanently below ReopenAccount? • ...with selection on both Example: <pre> graph TD BA[Bank Account] --> OA[OpenAccount] BA --> AL[AccountLifetime] BA --> CA[CloseAccount:] AL --> T[Transactions*] CA --> RA[Reopen Account?] RA --> FR(()) FR --> FTR[FlagToReopen] FR --> DP[DeletePermanently] FTR --> FR2(()) DP --> FR2 style FR fill:none,stroke:none style FR2 fill:none,stroke:none </pre>	6

PUBLISHED

Question	Answer	Marks
1(b)	1 mark per bullet point: • Credit and debit below Transaction • Swift and BACS below Credit • Debit, Cheque and Online below Debit • Correct selections where needed and no additional selection/iteration <pre> graph TD Transaction[Transaction] --> Check[Check transaction type] Check --> Credit[Credit] Check --> Debit[Debit] Credit --> SWIFT[SWIFT] Credit --> BACS[BACS] Debit --> DebitCard[Debit card] Debit --> Cheque[Cheque] Debit --> Online[Online] </pre>	4

Question	Answer	Marks
2(a)	1 mark for each fact: <pre> 18 type(waterdog, gundog). 19 is_a(standardpoodle, waterdog). </pre>	2
2(b)	1 mark for each result: <pre> H = english_setter, irish_setter </pre>	2