

**MARK SCHEME for the May/June 2008 question paper**

**9713 APPLIED INFORMATION AND  
COMMUNICATION TECHNOLOGY**

**9713/02**

Paper 2 (Practical Test A), maximum raw mark 120

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

- CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the May/June 2008 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

No marks to be awarded for any printout not containing the candidate name, candidate number and Centre number

Formatting  
 Row 1, 2 and 5 – Centre 1 mark  
 Row 1, 2 and 5 – Bold 1 mark  
 Row 3 – integer 1 mark  
 Minutes, Route & Passengers – Right 1 mark  
 Destination – Centre 1 mark

4 new rows inserted 1 mark

Title 100% correct 1 mark

4 labels 100% correct 1 mark

**Due between 11:00 and 11:30**

Delays		
Average	Maximum	Long
4	25	38

Bus Code	Due	Arrived	Late	Minutes	Route	Passengers	Destination
2610A135	11:27	11:27	00:00	0	1	12	Airport
2620T116	11:03	11:10	00:07	7	2	16	Tawara town centre
2620T133	11:11	11:16	00:05	5	2	16	Tawara town centre
2620T206	11:29	11:33	00:04	4	2	16	Tawara town centre
2620T200	11:27	11:30	00:03	3	2	16	Tawara town centre
2620T138	11:00	11:00	00:00	0	2	16	Tawara town centre
2630M179	11:19	11:22	00:03	3	3	12	Shopping mall
2630M097	11:23	11:24	00:01	1	3	12	Shopping mall
2640C117	11:14	11:20	00:06	6	4	18	Clifftop paradise
2650T143	11:05	11:15	00:10	10	5	24	Tawara town centre
2660D158	11:04	11:13	00:09	9	6	16	Dive centre
2660D121	11:11	11:19	00:08	8	6	16	Dive centre
2660D168	11:01	11:08	00:07	7	6	16	Dive centre
2660D137	11:30	11:35	00:05	5	6	16	Dive centre
2670S204	11:11	11:17	00:06	6	7	53	Sailing centre
2680A878	11:11	11:11	00:00	0	8	#N/A	Airport
2690W160	11:04	11:12	00:08	8	9	48	Water park
2690W175	11:29	11:30	00:01	1	9	48	Water park

Searching  
 Due >=11:00 and <=11:30 2 marks

Sorting  
 Ascending on Route 1 mark  
 then  
 Descending on Minutes 1 mark

Route 8 data not shown 1 mark  
 Single page & all visible 1 mark

Candidate name, Centre number and candidate number

In footer 1 mark

Title 100% correct 1 mark

Average  
 Correct function 1 mark  
 Correct range 1 mark

Maximum  
 Correct function 1 mark  
 Correct range 1 mark  
 Can be column D or E

Countif  
 Correct function 1 mark  
 Correct range 1 mark  
 Correct comparison 1 mark  
 Can be column D or E

Searching  
 Minutes >10  
 Check correct rec

**Formulae Used**

	A	B				F
1	<b>Delays</b>					
2	<b>Average</b>	<b>Maximum</b>	<b>Long</b>			
3	=AVERAGE(E6:E131)	=MAX(E6:E131)	=COUNTIF(E6:E131,">4")			
4						
5	<b>Bus Code</b>	<b>Due</b>	<b>Arrived</b>	<b>Late</b>	<b>Minutes</b>	<b>Route</b>
68	2650T132	0.534722222222222	0.552083333333333	=IF(B68>C68,0,C68-B68)	=MINUTE(D68)	=MID(A68,3,1)
69	2650T104	0.484027777777778	0.491666666666667	=IF(B69>C69,0,C69-B69)	=MINUTE(D69)	=MID(A69,3,1)
81	2660D095	0.522916666666667	0.536111111111111	=IF(B81>C81,0,C81-B81)	=MINUTE(D81)	=MID(A81,3,1)
97	2670S177	0.397916666666667	0.411111111111111	=IF(B97>C97,0,C97-B97)	=MINUTE(D97)	=MID(A97,3,1)
122	2690W207	0.486111111111111	0.498611111111111	=IF(B122>C122,0,C122-B122)	=MINUTE(D122)	=MID(A122,3,1)

Late  
 IF used 1 mark  
 > condition correct 1 mark  
 Zero if not 1 mark  
 Subtraction 1 mark

Minutes  
 Correct function used or appropriate calculation 2 mark

Route  
 Mid function used 1 mark  
 Correct cell reference 1 mark  
 Third position in string 1 mark  
 1 character extraction 1 mark

Candidate name, Centre number and candidate number

2		
3		
4		
5	<b>Passengers</b>	<b>Destination</b>
68	=VLOOKUP(VALUE(F68),J8SEATS.csv!\$A\$2:\$B\$9,2,False)	=VLOOKUP(MID(A68,5,1),[J8DEST.csv]J8DEST!\$A\$1:\$B\$7,2)
69	=VLOOKUP(VALUE(F69),J8SEATS.csv!\$A\$2:\$B\$9,2,False)	=VLOOKUP(MID(A69,5,1),[J8DEST.csv]J8DEST!\$A\$1:\$B\$7,2)
81	=VLOOKUP(VALUE(F81),J8SEATS.csv!\$A\$2:\$B\$9,2,False)	=VLOOKUP(MID(A81,5,1),[J8DEST.csv]J8DEST!\$A\$1:\$B\$7,2)
97	=VLOOKUP(VALUE(F97),J8SEATS.csv!\$A\$2:\$B\$9,2,False)	=VLOOKUP(MID(A97,5,1),[J8DEST.csv]J8DEST!\$A\$1:\$B\$7,2)
122	=VLOOKUP(VALUE(F122),J8SEATS.csv!\$A\$2:\$B\$9,2,False)	=VLOOKUP(MID(A122,5,1),[J8DEST.csv]J8DEST!\$A\$1:\$B\$7,2)

Row headings visible 1 mark  
 Column headings visible 1 mark  
 Landscape orientation 1 mark

Replication  
 Correct replication 1 mark  
 All formulae fully visible 1 mark  
 All labels fully visible 1 mark

Passengers  
 LOOKUP function used 1 mark  
 Value (may be in separate col) 1 mark  
 External file reference 1 mark  
 Correct range 1 mark  
 Correct return column 1 mark

Destination  
 LOOKUP function used 1 mark  
 MID (may be in separate col/s) 1 mark  
 Correct cell reference 1 mark  
 5<sup>th</sup> character 1 mark  
 1 character extracted 1 mark  
 External file reference 1 mark  
 Correct range 1 mark  
 Correct return column 1 mark

Candidate name, Centre number and candidate number

Header 100% correct 1 mark

### Late buses by Route

Subheading 100% correct 1 mark  
In merged cell 1 mark

Number of buses late, by route								
Route 1	Route 2	Route 3	Route 4	Route 5	Route 6	Route 7	Route 8	Route 9
0	6	5	2	4	8	6	5	2

Searching & Counting  
Correct results 6 marks  
Subtract 1 for each error

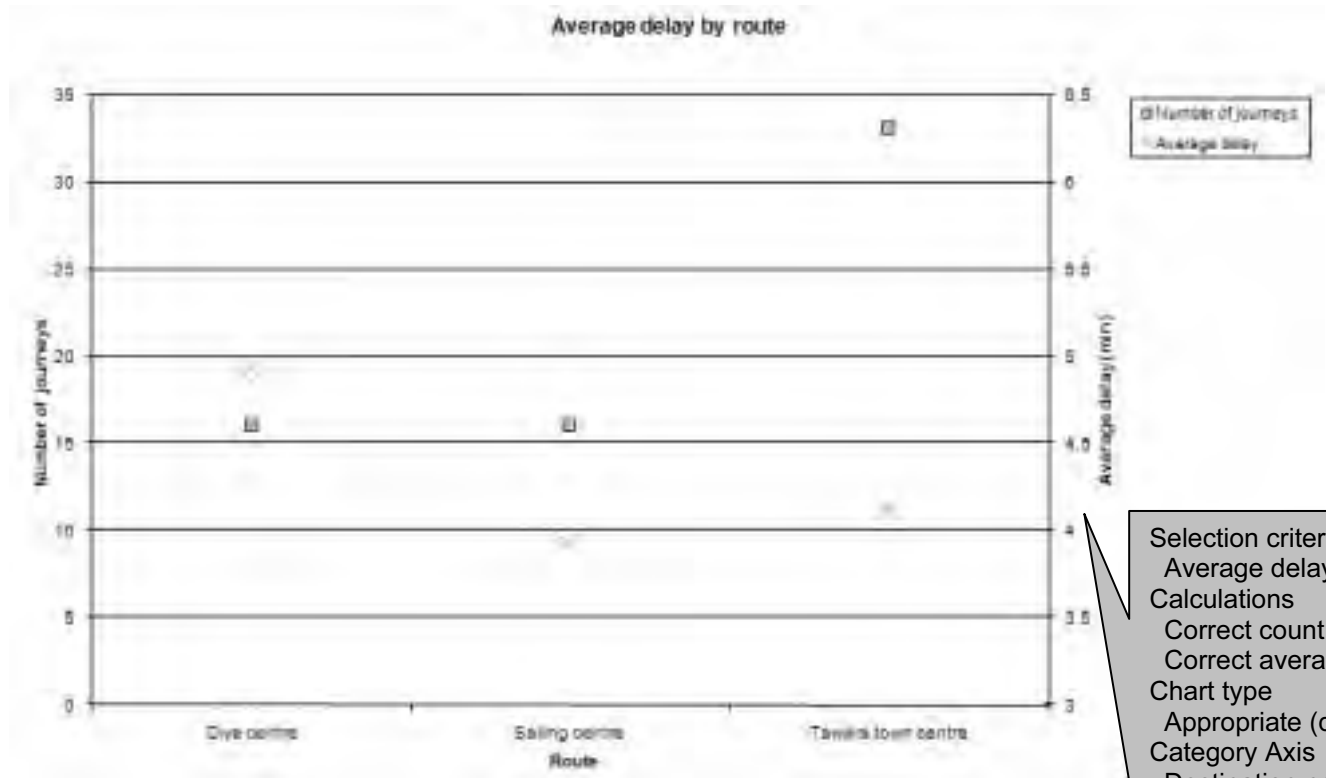
Route 1	0
Route 2	6
Route 3	5
Route 4	2
Route 5	4
Route 6	8
Route 7	6
Route 8	5
Route 9	2

Transposed 2 marks

Single page 1 mark  
All visible (both tables and all contents) 1 mark

In footer 1 mark

Candidate name, Centre number and candidate number



Candidate name, Centre number and candidate number

Selection criteria		
Average delay > 3.5 (these trips only)		2 marks
Calculations		
Correct count values 16, 16, 32 for number		2 marks
Correct average values 4.9, 3.9, 4.2 for ave		2 marks
Chart type		
Appropriate (data points)		2 marks
Category Axis		
Destination names in full		1 mark
Meaningful & appropriate axis label		1 mark
Value Axes		
2 axes shown		1 mark
Meaningful & appropriate axis labels		2 marks
Average delay axis rescaled – min 3		2 marks
Chart Title		
Meaningful & appropriate chart title		1 mark
Title of appropriate size		1 mark
Series labels		
Visible, correct and appropriate (may be in a legend)		2 marks



## Paradise rediscovered... Tawara Beach Hotel



Standing proudly beside the glittering, blue ocean in the burgeoning resort of Tawara Beach, it aims to offer 5 star service in a 5 star location. On arrival, take a quiet and leisurely stroll through the dazzling gardens past the serene swimming pools and onto the glorious beach, and you'll instantly be thrilled that you chose the Hotel Tawara Beach for your holiday in Sri Lanka.

Inside the hotel you'll discover elegant bedrooms and a wonderful array of facilities ranging from a full entertainment programme to a well equipped fitness centre. So, whether you're a young family looking for a lively week filled with fun and activity or a couple seeking relaxation and romance, the world class Hotel Tawara Beach is the perfect choice for your holiday.

The hotel is just 1.5km from the shopping centre with souvenir shops and a chemist. Venture into Tawara resort centre, 7km away, for a selection of beach bars and restaurants.

Just 17km away is Galle, itself built around an old Fort jutting out into the Indian Ocean. It is a labyrinth of streets and alleys, and is well worth a visit with a scarf and a hat. You don't expect to find a multitude of pleasures in the evening along with many of the residents. Something you have to get used to is the friendly atmosphere of the island.

Heading	
Bold	1 mark
Underscore	1 mark
Centre aligned	1 mark
16 point	1 mark
Sans-serif font	1 mark

Boasting 4 freshwater swimming pools, one of which is indoor and one quiet pool for Adults only, the Hotel Tawara Beach is great for water lovers. The elegant sun terraces offer the ideal place to work on your tan and appreciate the beautiful surroundings. Diving and snorkelling are well established local pastimes, with the Hotel Tawara Beach using a diving centre only 6 km away.

Image – left column	
Aligns top of text +-2mm	1 mark
Aligns margins +-2mm	1 mark
More than 1/3 of vertical column	1 mark
Cropped – all building visible	1 mark
Text wrap	1 mark
No distortion	1 mark

The hotel offers 4 all-inclusive dining opportunities - an international buffet restaurant, French à la carte and Sri Lankan à la carte (one visit per stay). There is also a superb fish restaurant which charges extra. All restaurants are non-smoking, air-conditioned and hold themed evenings with diet, vegetarian and children's menus available. Children can also enjoy early suppers. If you're feeling peckish in between meals a patisserie and snack bar are available. The fourth restaurant is the Sucrose Spectacular. It uses an ingenious blend of  $C_{12}H_{22}O_{11}$  (more commonly known as cane sugar) which is extracted in-house. The most creative sucrose chef on the island then creates the most magnificent sugar creations, exceeding the dreams of the most sweet-toothed guest.

The Hotel Tawara Beach boasts an amazing array of facilities including tennis, basketball,

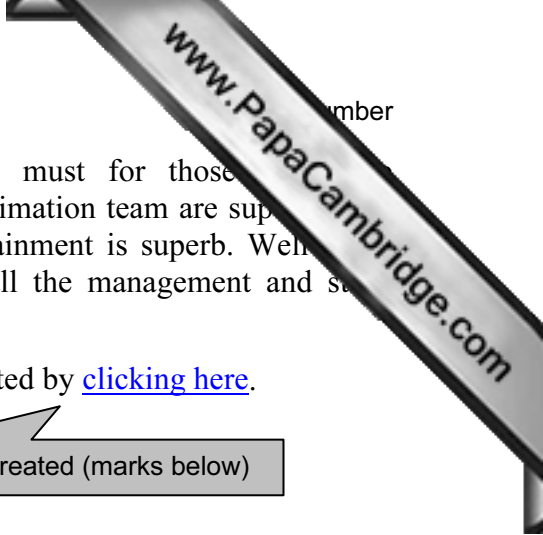
The Hotel Tawara Beach boasts an amazing array of facilities including tennis, basketball,

Text	
Correctly replaced	1 mark
Subscript used	2 mark

Candidate name

Candidate number

number



Header	
Candidate name – left	1 mark
Candidate number – centre	1 mark
Centre number – right	1 mark
MUST align to margins	

table tennis  
watersports  
canoeing, a  
path for those  
oliday. There's

Spectacular is a must for those  
desserts. The Animation team are sup  
night time entertainment is superb. Wel  
All the best to all the management and st  
We will return.

a daily animation programme and nightly  
evening entertainment plus a lounge, bar and  
beach bar.

We can be contacted by [clicking here](#).

hyperlink created (marks below)

Children are wonderfully looked after at the  
Hotel Tawara Beach with their own swimming  
pool, a soft play centre, playroom, playground  
and an exciting hotel-run kid's club. Cots and  
highchairs are available.

The hotel also offers free bus services to guests,  
to the following locations:

- Airport
- Clifftop paradise
- Dive centre
- Shopping mall
- Sailing centre
- Tawara town centre
- Water park

These run with incredible frequency, for the  
buses to the town centre and shopping mall, it is  
not unusual to find 6 buses per hour during the  
daylight hours.

The hotel complex also includes:

- Minimarket
- Souvenir shop
- 24 hour reception
- Money exchange facility
- Safety deposit boxes
- Room service
- Laundry service
- Hairdresser
- Health and beauty centre including  
massage
- Video games
- Internet
- Motorised watersports at an extra charge
- Hotel doctor

Comments from a recent visitor said:

This was a wonderful holiday. Thanks to  
extremely well trained, friendly staff. The hotel  
is one of the most friendly hotels that we have  
stayed in Sri Lanka. We certainly return again.  
The food is excellent, with the Sucrose

Body style	
12 point	1 mark
Single line spacing	1 mark
Serif	1 mark
Fully justified	1 mark
2 columns	1 mark
0.5 cm gap with line	1 mark
All text	1 mark

Page	
Margins 2cm (17cm line length)	1 mark
A4 portrait	1 mark
No widows/orphans	1 mark
No split lists – lists must be bulleted	1 mark

Footer	
Automated page number	1 mark
Right side	1 mark
MUST align to margin	



