Zonal Informatics Olympiad, 2014

Solutions

Question 1	Minimum number of operations required to print all words		
	(a) **88**	(b) **120**	(c) **115**

Question 2	Final city on the salesman's tour from each starting point		
	(a) $2 \rightsquigarrow$ **7** $6 \rightsquigarrow$ **1**	(b) $0 \rightsquigarrow$ **11** $10 \rightsquigarrow$ **1**	(c) $4 \rightsquigarrow$ **4** $7 \rightsquigarrow$ **11**

Question 3	Number of different possible codes, modulo 100 (last 2 digits only)		
	(a) **36**	(b) **84**	(c) **08 or 8**

Question 4	Number of distinct subsequences of length N of the given word		
	(a) **34**	(b) **281**	(c) **212**

Marking

The question paper carries 80 marks, broken up into four questions of 20 marks each. Each question has three parts. *If you solve all three parts correctly, you get 20 marks for that question.* Otherwise, you get 5 marks for each part that you solve correctly.

Qualifying cutoff

- Std 12: 40
- Std 11: 30
- Std 10 or below: 25