## Zonal Informatics Olympiad, 2007: Answer sheet

Write only your final answers in the space provided. Write all rough work on separate sheets.

1. (a) No. of valleys ( 10 folds): 512
(b) First 10 creases ( 15 folds):
$\vee \vee \wedge \vee \vee \wedge \wedge \vee \vee \vee$
(c) Last 10 creases (18 folds): $\wedge \wedge \wedge \vee \vee \wedge \wedge \vee \wedge \wedge$
2. (a) Min coins for 1 to win:17
(b) Max coins for 2 to win:50
(c) No. of values for 1 to win:
3. (a) Coordinates of cubicle:
$(51,30,7)$
(b) Coordinates of cubicle:
$(48,1,38)$
(c) Coordinates of cubicle:
4. (a) No. of reorderings (8 coaches):258
(b) No. of reorderings ( 9 coaches):569
(c) No. of reorderings (10 coaches):1255
5. (a) Total size of potholes: 101
(b) Total size of potholes: 37
(c) Total size of potholes:184
