After the exam of 18.03.2016:
Typical errors, comments etc.

QUESTION 1

ERROR: unsuccessful investigation of convergence of the integral in t.
PENALTY: 5(+5) points.
COMMENT: amazingly, several students try to *calculate* the integral just for investigating its convergence. I wonder, do they also calculate the sum of a series, being asked whether it converges or not?

QUESTION 2

Item (a)
ERROR: no proof that $D_1 u, \ldots, D_n u$ are harmonic.
PENALTY: 7 points.

Item (b)
ERROR: just "the same as Item (a)".
PENALTY: 7 points.

QUESTION 4

ERROR: $\int_G (\ldots) J_\psi$ appears.
CLARIFICATION: the generalized Jacobian J_ψ is relevant when integrating a function, and irrelevant when integrating a differential form.
PENALTY: 15 points.

ERROR: a chart (G, ψ) with the correct $\psi(x, r)$ but wrong G (a rectangle instead of disk).
PENALTY: 7 points.

PARTIAL SUCCESS: the integral of $x\, dr$ over the circle is reached (but not calculated).
REWARD: 30 points.

PARTIAL SUCCESS: $\int_M dx \wedge d\sqrt{y^2 + z^2}$ (or $\int_{\partial M} x\, d\sqrt{y^2 + z^2}$) is reached (but not calculated).
REWARD: 15 points.

Grades statistics

Total	Question 1	Question 2	Question 3	Question 4
105	25	40	40	
100	30		40	30
98	40		40	18
85	33		40	12
79	39		10	30
73	30		35	8
69	30		39	0
68	28		40	
66	40	26		0
65	30		35	0
45	20	10		15
40	40	0		0
32	32	0		0
30	10		10	10
0				