

Table 1

Scale-level characteristics of the PFT examination

Exam	n	k	Raw Cut	Mean Score	SD	Alpha	SEM	DC	Pass Rate
NESTA Portion 28485	184	100	71	73.19	11.75	0.882	4.039	0.884	62.50

Table 2

Subscale-level characteristics of the PFT examination

Exam	Content Domain	k	Mean Score	SD	Min Score	Max Score	Alpha
NESTA Portion 28485	Business Applications	15	12.18	1.86	4	15	*
	Exercise Sciences	25	15.89	4.31	6	25	0.875
	Program Design	25	18.29	3.50	6	25	0.799
	Program Implementation	35	26.82	4.47	11	35	0.856

*The alpha value calculated was below zero and is not interpretable

Table 3

Item-level characteristics of the PFT examination

Item ID	n	P-Value	Pt-Bis
PFT3_00002	130	0.77	0.43
PFT3_00003	129	0.74	0.49
PFT3_00004	62	0.82	0.22
PFT3_00005	170	0.76	0.33
PFT3_00006	170	0.83	0.28
PFT3_00008	48	0.63	0.47
PFT3_00009	71	0.83	0.17
PFT3_00010	184	0.86	0.33
PFT3_00011	53	0.66	0.29
PFT3_00012	56	0.79	0.50
PFT3_00013	77	0.87	0.18
PFT3_00014	154	0.47	0.30
PFT3_00015	117	0.87	0.22
PFT3_00019	114	0.81	0.13
PFT3_00020	167	0.59	0.20
PFT3_00022	52	0.56	0.49
PFT3_00026	98	0.72	0.32
PFT3_00028	102	0.52	0.32
PFT3_00029	66	0.48	0.23
PFT3_00031	40	0.58	0.19

Item ID	n	P-Value	Pt-Bis
PFT3_00032	63	0.40	0.18
PFT3_00033	184	0.55	0.25
PFT3_00037	184	0.65	0.20
PFT3_00041	184	0.71	0.37
PFT3_00046	184	0.89	0.33
PFT3_00053	66	0.64	0.30
PFT3_00056	151	0.47	0.39
PFT3_00057	61	0.82	0.31
PFT3_00058	129	0.84	0.55
PFT3_00062	134	0.69	0.48
PFT3_00063	106	0.62	0.39
PFT3_00071	184	0.96	-0.07
PFT3_00072	133	0.68	0.51
PFT3_00073	90	0.54	0.06
PFT3_00075	64	0.92	0.34
PFT3_00080	44	0.89	0.18
PFT3_00083	184	0.89	0.13
PFT3_00084	53	0.74	0.12
PFT3_00091	82	0.38	0.36
PFT3_00092	163	0.56	0.55
PFT3_00093	54	0.54	0.28
PFT3_00100	63	0.86	0.56
PFT3_00105	52	0.98	-0.08
PFT3_00111	73	0.53	0.49
PFT3_00113	63	0.73	0.33
PFT3_00119	59	0.92	0.38
PFT3_00126	45	0.76	0.46
PFT3_00127	83	0.34	0.28
PFT3_00133	61	0.67	0.40
PFT3_00165	61	0.75	0.49
PFT3_00166	57	0.65	0.13
PFT3_00167	128	0.84	0.17
PFT3_00170	68	0.81	0.37
PFT3_00171	52	0.85	0.49
PFT3_00172	75	0.73	0.28
PFT3_00174	77	0.49	-0.02
PFT3_00175	59	0.83	0.31
PFT3_00176	80	0.39	0.02
PFT3_00178	62	0.85	0.02
PFT3_00180	57	0.51	0.38

Item ID	n	P-Value	Pt-Bis
PFT3_00199	166	0.59	0.08
PFT3_00202	148	0.61	0.31
PFT3_00204	114	0.77	0.30
PFT3_00209	119	0.91	0.29
PFT3_00221	148	0.95	0.30
PFT3_00228	150	0.75	0.18
PFT3_00231	155	0.64	0.22
PFT3_00233	133	0.85	0.22
PFT3_00235	95	0.94	0.16
PFT3_00247	120	0.84	0.22
PFT3_00248	134	0.72	0.03
PFT3_00276	153	0.77	0.18
PFT3_00304	43	0.79	0.38
PFT3_00306	75	0.95	0.47
PFT3_00307	91	0.59	0.29
PFT3_00308	93	0.98	0.29
PFT3_00309	82	0.88	0.38
PFT3_00313	73	0.89	0.37
PFT3_00314	95	0.68	0.33
PFT3_00316	184	0.87	0.31
PFT3_00318	74	0.91	0.50
PFT3_00321	41	0.61	0.36
PFT3_00323	91	0.64	0.23
PFT3_00325	92	0.70	0.19
PFT3_00329	80	0.70	0.35
PFT3_00330	72	0.88	0.54
PFT3_00333	77	0.75	0.26
PFT3_00334	87	0.71	0.25
PFT3_00335	80	0.60	0.17
PFT3_00336	184	0.97	0.33
PFT3_00339	184	0.61	0.18
PFT3_00340	127	0.74	0.53
PFT3_00341	184	0.88	0.22
PFT3_00347	184	0.74	0.04
PFT3_00380	73	0.88	0.17
PFT3_00381	184	0.88	0.01
PFT3_00382	69	0.48	0.29
PFT3_00383	54	0.80	0.26
PFT3_00388	70	0.51	0.33
PFT3_00391	29	0.86	0.28

Item ID	n	P-Value	Pt-Bis
PFT3_00392	65	0.48	0.18
PFT3_00397	77	0.91	0.44
PFT3_00400	64	0.84	0.37
PFT3_00401	86	0.47	0.24
PFT3_00404	44	0.82	0.51
PFT3_00405	46	0.72	0.56
PFT3_00406	85	0.52	0.53
PFT3_00412	54	0.65	0.29
PFT3_00413	73	0.30	0.27
PFT3_00415	57	0.89	0.13
PFT3_00416	72	0.33	0.10
PFT3_00418	50	0.78	0.41
PFT3_00419	64	0.20	0.13
PFT3_00420	42	0.69	0.29
PFT3_00421	47	0.66	0.36
PFT3_00424	52	0.65	0.21
PFT3_00425	63	0.56	0.36
PFT3_00428	184	0.92	0.48
PFT3_00429	43	0.74	0.66
PFT3_00431	44	0.80	0.58
PFT3_00433	103	0.51	0.34
PFT3_00434	96	0.74	0.35
PFT3_00437	37	0.78	0.45
PFT3_00439	103	0.55	0.61
PFT3_00441	67	0.54	0.19
PFT3_00446	68	0.62	0.17
PFT3_00447	85	0.56	0.33
PFT3_00450	69	0.42	0.29
PFT3_00456	51	0.61	0.46
PFT3_00460	72	0.44	0.40
PFT3_00525	64	0.67	0.48
PFT3_00526	76	0.47	0.26
PFT3_00527	53	0.68	0.28
PFT3_00529	84	0.71	0.35
PFT3_00549	103	0.89	0.10
PFT3_00550	120	0.97	0.16
PFT3_00551	94	0.65	0.21
PFT3_00562	117	0.87	0.34
PFT3_00563	132	0.86	0.35
PFT3_00574	141	0.74	0.15

Item ID	n	P-Value	Pt-Bis
PFT3_00596	114	0.90	0.24
PFT3_00599	28	0.96	0.21
PFT3_00601	26	0.88	0.22
PFT3_00603	32	0.75	0.60
PFT3_00605	36	0.61	0.48
PFT3_00607	28	0.93	0.63
PFT3_00609	42	0.10	0.35
PFT3_00611	30	0.73	0.05
PFT3_00616	40	0.58	0.22
PFT3_00621	33	0.52	0.15
PFT3_00624	26	0.69	0.10
PFT3_00628	32	0.63	0.19
PFT3_00629	32	0.94	0.30
PFT3_00634	19	0.74	0.17
PFT3_00636	22	0.91	-0.09
PFT3_00638	35	0.94	0.44
PFT3_00649	30	0.80	0.39
PFT3_00650	36	0.44	-0.04
PFT3_00652	41	0.59	0.31
PFT3_00656	33	0.52	0.32
PFT3_00660	25	0.60	0.30
PFT3_00661	31	0.71	0.63
PFT3_00662	26	0.88	0.46
PFT3_00663	27	0.85	0.25
PFT3_00664	125	0.72	0.11
PFT3_00666	34	0.50	0.48
PFT3_00667	51	0.31	0.47
PFT3_00669	34	0.79	0.03
PFT3_00671	37	0.46	0.22
PFT3_00673	25	0.84	0.29
PFT3_00676	127	0.94	0.18
PFT3_00687	50	0.84	0.17
PFT3_00689	162	0.78	0.29
PFT3_00690	51	0.86	-0.10
PFT3_00692	150	0.87	0.20
PFT3_00693	184	0.43	0.40
PFT3_00696	62	0.94	0.18
PFT3_00697	168	0.83	0.22
PFT3_00705	122	0.93	0.20
PFT3_00710	133	0.82	0.49

Item ID	n	P-Value	Pt-Bis
PFT3_00711	142	0.82	0.05
PFT3_00713	184	0.47	0.43
PFT3_00714	184	0.93	0.33
PFT3_00715	184	0.87	0.23
PFT3_00718	127	0.80	0.32
PFT3_00724	184	0.73	0.16
PFT3_00725	120	0.86	0.38
PFT3_00728	183	0.58	0.35
PFT3_00729	130	0.94	0.44
PFT3_00730	153	0.61	0.34
PFT3_00733	150	0.65	0.15
PFT3_00734	168	0.90	0.24
PFT3_00736	128	0.95	0.14
PFT3_00737	134	0.78	0.29
PFT3_00746	58	0.76	0.45
PFT3_00747	164	0.80	0.43
PFT3_00753	83	0.88	0.20
PFT3_00754	170	0.75	0.28
PFT3_00759	121	0.93	0.40