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TAP: Test Analysis Program (version 14.7.4) N<10K version

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ANALISIS UJI COBA SOAL KOGNITIF IPA MATERI GERAK GAYA SMP MUSASI

TITLE: ANALISIS UJI COBA SOAL KOGNITIF IPA MATERI GERAK GAYA SMP MUSASI

COMMENT:

Full Test Analysis

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Examinee Score Summary

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Number of Examinees = 52

Total Possible Score= 40

Minimum Score = 11.000 = 27.5%

Maximum Score = 40.000 = 100.0%

Median Score = 33.500 = 83.8%

Mean Score = 31.212 = 78.0%

Standard Deviation = 8.148

Variance = 66.398

Skewness = -1.030

Kurtosis = 0.155

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Score Frequency Table

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Z	Rel.	Cum.	Cum.	Percentile	Normalized
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Score	Score	Freq.	Freq.	Freq.	Percent	Rank	Stanine	Zn Score
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11	-2.48	1	0.019	1	1.92	1.0	1	-2.34
12	-2.36	2	0.038	3	5.77	3.8	1	-1.76
13	-2.23	1	0.019	4	7.69	6.7	2	-1.49
17	-1.74	1	0.019	5	9.62	8.7	2	-1.36
18	-1.62	1	0.019	6	11.54	10.6	3	-1.24
19	-1.50	1	0.019	7	13.46	12.5	3	-1.15
22	-1.13	1	0.019	8	15.38	14.4	3	-1.06
23	-1.01	1	0.019	9	17.31	16.3	3	-0.98
25	-0.76	1	0.019	10	19.23	18.3	3	-0.90
26	-0.64	2	0.038	12	23.08	21.2	3	-0.80
28	-0.39	4	0.077	16	30.77	26.9	4	-0.61
29	-0.27	1	0.019	17	32.69	31.7	4	-0.47
30	-0.15	3	0.058	20	38.46	35.6	4	-0.36
31	-0.03	2	0.038	22	42.31	40.4	5	-0.24
32	0.10	2	0.038	24	46.15	44.2	5	-0.01
33	0.22	2	0.038	26	50.00	48.1	5	-0.01
34	0.34	3	0.058	29	55.77	52.9	5	0.07
35	0.46	2	0.038	31	59.62	57.7	5	0.19
36	0.59	4	0.077	35	67.31	63.5	6	0.34
37	0.71	2	0.038	37	71.15	69.2	6	0.50
38	0.83	4	0.077	41	78.85	75.0	6	0.67
39	0.96	6	0.115	47	90.38	84.6	7	1.02
40	1.08	5	0.096	52	100.00	95.2	9	1.66

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Totals: 52 1.000

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Bar Graph

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Score Count Graph (each @ represents 1 case)

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11.00	1	@
12.00	2	@@
13.00	1	@
14.00	0	
15.00	0	
16.00	0	
17.00	1	@
18.00	1	@
19.00	1	@
20.00	0	
21.00	0	
22.00	1	@
23.00	1	@
24.00	0	
25.00	1	@
26.00	2	@@
27.00	0	
28.00	4	@@@@
29.00	1	@
30.00	3	@@@
31.00	2	@@
32.00	2	@@
33.00	2	@@
34.00	3	@@@

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35.00  2  @@
36.00  4  @@@@
37.00  2  @@
38.00  4  @@@@
39.00  6  @@@@@@
40.00  5  @@@@@

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Stem-and-Leaf Display

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Stem Leaves (width=10)

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1 . 1223

1 . 789

2 . 23

2 . 56688889

3 . 000112233444

3 . 556666778888999999

4 . 00000

TITLE: ANALISIS UJI COBA SOAL KOGNITIF IPA MATERI GERAK GAYA SMP MUSASI

COMMENT:

Item and Test Analysis

	Number	Item	Disc.	# Correct	# Correct	Point	Adj
Item	Key	Correct	Diff	Index in High Grp	in Low Grp	Biser	PtBis

Item 01 (2)	25	0.48	0.62	14 (0.93)	5 (0.31)	0.35	0.30
Item 02 (1)	25	0.48	0.68	13 (0.87)	3 (0.19)	0.51	0.47
Item 03 (3)	41	0.79	0.31	14 (0.93)	10 (0.63)	0.18	0.13
Item 04 (3)	44	0.85	0.12	13 (0.87)	12 (0.75)	0.11	0.07
Item 05 (3)	32	0.62	0.81	15 (1.00)	3 (0.19)	0.61	0.57
Item 06 (3)	48	0.92	0.19	15 (1.00)	13 (0.81)	0.21	0.18
Item 07 (4)	27	0.52	0.62	13 (0.87)	4 (0.25)	0.52	0.47
Item 08 (3)	45	0.87	0.38	15 (1.00)	10 (0.63)	0.45	0.42
Item 09 (1)	45	0.87	0.44	15 (1.00)	9 (0.56)	0.65	0.63
Item 10 (2)	41	0.79	0.31	15 (1.00)	11 (0.69)	0.18	0.13
Item 11 (3)	46	0.88	0.31	15 (1.00)	11 (0.69)	0.64	0.62
Item 12 (3)	33	0.63	0.50	14 (0.93)	7 (0.44)	0.48	0.43
Item 13 (3)	47	0.90	0.31	15 (1.00)	11 (0.69)	0.62	0.60
Item 14 (4)	39	0.75	0.50	15 (1.00)	8 (0.50)	0.55	0.51
Item 15 (1)	42	0.81	0.50	15 (1.00)	8 (0.50)	0.58	0.55
Item 16 (2)	44	0.85	0.44	15 (1.00)	9 (0.56)	0.69	0.67
Item 17 (3)	41	0.79	0.44	15 (1.00)	9 (0.56)	0.47	0.43
Item 18 (2)	32	0.62	0.63	15 (1.00)	6 (0.38)	0.46	0.41

Item 19 (2)	49	0.94	0.19	15 (1.00)	13 (0.81)	0.49	0.47
Item 20 (1)	45	0.87	0.31	15 (1.00)	11 (0.69)	0.58	0.55
Item 21 (4)	30	0.58	0.62	13 (0.87)	4 (0.25)	0.59	0.54
Item 22 (1)	39	0.75	0.69	15 (1.00)	5 (0.31)	0.65	0.61
Item 23 (1)	35	0.67	0.62	14 (0.93)	5 (0.31)	0.58	0.54
Item 24 (3)	40	0.77	0.63	15 (1.00)	6 (0.38)	0.62	0.59
Item 25 (3)	46	0.88	0.38	15 (1.00)	10 (0.63)	0.64	0.61
Item 26 (2)	42	0.81	0.38	15 (1.00)	10 (0.63)	0.43	0.39
Item 27 (2)	43	0.83	0.44	15 (1.00)	9 (0.56)	0.57	0.54
Item 28 (4)	38	0.73	0.56	14 (0.93)	6 (0.38)	0.52	0.48
Item 29 (2)	47	0.90	0.31	15 (1.00)	11 (0.69)	0.58	0.56
Item 30 (3)	45	0.87	0.38	15 (1.00)	10 (0.63)	0.60	0.58
Item 31 (3)	47	0.90	0.25	15 (1.00)	12 (0.75)	0.49	0.46
Item 32 (4)	34	0.65	0.88	15 (1.00)	2 (0.13)	0.74	0.72
Item 33 (2)	43	0.83	0.50	15 (1.00)	8 (0.50)	0.76	0.74
Item 34 (1)	45	0.87	0.44	15 (1.00)	9 (0.56)	0.77	0.75
Item 35 (2)	43	0.83	0.31	14 (0.93)	10 (0.63)	0.45	0.41
Item 36 (2)	32	0.62	0.81	15 (1.00)	3 (0.19)	0.55	0.51
Item 37 (2)	45	0.87	0.25	15 (1.00)	12 (0.75)	0.39	0.35
Item 38 (3)	46	0.88	0.38	15 (1.00)	10 (0.63)	0.49	0.46
Item 39 (1)	46	0.88	0.38	15 (1.00)	10 (0.63)	0.60	0.57
Item 40 (1)	46	0.88	0.31	15 (1.00)	11 (0.69)	0.63	0.61

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These results have been sorted by item number

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Number of Items Excluded = 0

Number of Items Analyzed = 40

Mean Item Difficulty = 0.780

Mean Discrimination Index = 0.452

Mean Point Biserial = 0.525

Mean Adj. Point Biserial = 0.491

KR20 (Alpha) = 0.929

KR21 = 0.920

SEM (from KR20) = 2.164

High Grp Min Score (n=15) = 38.000

Low Grp Max Score (n=16) = 28.000

Split-Half (1st/ 2nd) Reliability = 0.809 (with Spearman-Brown = 0.894)

Split-Half (Odd/Even) Reliability = 0.925 (with Spearman-Brown = 0.961)

Minimum Item Diff. = 0.481, Maximum Item Diff. = 0.942

Minimum Disc. Index = 0.117, Maximum Disc. Index = 0.875

Minimum Pt. Biserial = 0.109, Maximum Pt. Biserial = 0.771

To obtain a KR-20 Reliability of .80, the test must be 0.30 times as long,

for a total of 12 items of similar quality to those in the test now.

To obtain a KR-20 Reliability of .90, the test must be 0.68 times as long,

for a total of 27 items of similar quality to those in the test now.

Additional Item Analysis

	Scale Mean	Scale SD	KR20	SEM	Adjusted
	if Item	if Item	if Item	if Item	Biserial Biserial
Item	Deleted	Deleted	Deleted	Deleted	Correl. Correl.

	-----	-----	-----	-----	-----	-----
Item 01	30.731	7.986	0.930+	2.111	0.442	0.373
Item 02	30.731	7.904	0.928	2.119	0.644	0.585
Item 03	30.423	8.085	0.931+	2.121	0.255	0.186
Item 04	30.365	8.117	0.931+	2.127	0.166	0.099
Item 05	30.596	7.862	0.927	2.126	0.773	0.723
Item 06	30.288	8.096	0.930+	2.143	0.390	0.332
Item 07	30.692	7.900	0.928	2.119	0.653	0.594
Item 08	30.346	8.000	0.928	2.142	0.713	0.659
Item 09	30.346	7.930	0.927	2.149	1.000	0.990
Item 10	30.423	8.087	0.931+	2.121	0.247	0.178
Item 11	30.327	7.946	0.927	2.150	1.000	1.000
Item 12	30.577	7.928	0.928	2.121	0.615	0.555
Item 13	30.308	7.968	0.927	2.152	1.000	1.000
Item 14	30.462	7.919	0.927	2.133	0.748	0.695
Item 15	30.404	7.926	0.927	2.140	0.838	0.790
Item 16	30.365	7.903	0.926	2.148	1.000	1.000
Item 17	30.423	7.965	0.928	2.133	0.663	0.606
Item 18	30.596	7.938	0.929	2.119	0.582	0.519
Item 19	30.269	8.036	0.928	2.153	0.994	0.949
Item 20	30.346	7.956	0.927	2.146	0.909	0.864
Item 21	30.635	7.869	0.927	2.124	0.739	0.686
Item 22	30.462	7.875	0.926	2.137	0.882	0.838
Item 23	30.538	7.885	0.927	2.128	0.756	0.704
Item 24	30.442	7.892	0.927	2.138	0.865	0.820
Item 25	30.327	7.949	0.927	2.150	1.000	1.000
Item 26	30.404	7.986	0.929	2.134	0.623	0.564
Item 27	30.385	7.938	0.927	2.141	0.847	0.800
Item 28	30.481	7.926	0.928	2.130	0.700	0.645

Item 29	30.308	7.980	0.927	2.151	1.000	0.969
Item 30	30.346	7.947	0.927	2.147	0.953	0.909
Item 31	30.308	8.009	0.928	2.148	0.845	0.796
Item 32	30.558	7.801	0.925	2.135	0.958	0.922
Item 33	30.385	7.865	0.925	2.148	1.000	1.000
Item 34	30.346	7.888	0.926	2.153	1.000	1.000
Item 35	30.385	7.986	0.928	2.137	0.663	0.607
Item 36	30.596	7.889	0.928	2.124	0.705	0.650
Item 37	30.346	8.021	0.929	2.140	0.615	0.558
Item 38	30.327	7.997	0.928	2.145	0.804	0.754
Item 39	30.327	7.961	0.927	2.149	0.986	0.943
Item 40	30.327	7.951	0.927	2.150	1.000	0.994

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+ indicates that KR20 (0.929) improves if the item is removed

Mean Biserial Correlation = 0.764

Minimum Biserial Corr. = 0.166

Maximum Biserial Corr. = 1.000

Table of Specifications Analysis

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CONTENT AREA ANALYSIS:

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Average

Content Area Difficulty Items in Content Area

berfokus pada kemam 0.481 1,2

menggunakan konsep,	0.720	5,9,10,14,21,23,24
memecah informasi ko	0.806	3,4,6,7,8,11,12,13,15,16,17,18,20,22,25, 26,27,28,29,30,35,36,38,39,40
menilai informasi,	0.904	19,37

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COGNITIVE SKILL LEVEL ANALYSIS:

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Average

Cognitive Level	Difficulty	Items in Cognitive Level
-----	-----	-----
MEMAHAMI	0.481	1,2
MENENTUKAN	0.720	5,9,10,14,21,23,24
MENGANALISIS	0.806	3,4,6,7,8,11,12,13,15,16,17,18,20,22,25, 26,27,28,29,30,35,36,38,39,40
MENYIMPULKAN	0.904	19,37

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CONTENT AND COGNITIVE COMBINED ANALYSIS:

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Avg.

Content Area	Cognitive Level	Diff. Items
-----	-----	-----
Content Area 1	Cognitive Level 1	<no items specified>
Content Area 1	MEMAHAMI	<no items specified>
Content Area 1	MENENTUKAN	<no items specified>
Content Area 1	MENGANALISIS	<no items specified>
Content Area 1	MENYIMPULKAN	<no items specified>

berfokus pada kemam	Cognitive Level 1	<no items specified>
berfokus pada kemam	MEMAHAMI	0.481 1,2
berfokus pada kemam	MENENTUKAN	<no items specified>
berfokus pada kemam	MENGANALISIS	<no items specified>
berfokus pada kemam	MENYIMPULKAN	<no items specified>
menggunakan konsep,	Cognitive Level 1	<no items specified>
menggunakan konsep,	MEMAHAMI	<no items specified>
menggunakan konsep,	MENENTUKAN	0.720 5,9,10,14,21,23,24
menggunakan konsep,	MENGANALISIS	<no items specified>
menggunakan konsep,	MENYIMPULKAN	<no items specified>
memecah informasi ko	Cognitive Level 1	<no items specified>
memecah informasi ko	MEMAHAMI	<no items specified>
memecah informasi ko	MENENTUKAN	<no items specified>
memecah informasi ko	MENGANALISIS	0.806 3,4,6,7,8,11,12,13,15,16,17, 18,20,22,25,26,27,28, 29,30,35,36,38,39,40
memecah informasi ko	MENYIMPULKAN	<no items specified>
menilai informasi,	Cognitive Level 1	<no items specified>
menilai informasi,	MEMAHAMI	<no items specified>
menilai informasi,	MENENTUKAN	<no items specified>
menilai informasi,	MENGANALISIS	<no items specified>
menilai informasi,	MENYIMPULKAN	0.904 19,37

Answer Key Analysis

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Bar Chart for Correct Answer Usage

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Answer Key Count Graph (each @ represents 1 case)

Option 1/A 9 @@@@@@@@@

Option 2/B 12 @@@@@@@@@@@@@

Option 3/C 14 @@@@@@@@@@@@@@

Option 4/D 5 @@@@@

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Bar Chart for Number of Options Usage

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Options Count Graph (each @ represents 1 case)

2 Options 0

3 Options 0

4 Options 40 @@@

Item Included, Answer Key, Additional Correct Options

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ITEMS INCLUDED:

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- 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40

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ITEMS EXCLUDED:

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No Items were EXCLUDED from the analysis

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CORRECT ANSWERS (Item#-Key):

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1-2 # 2-1 # 3-3 # 4-3 # 5-3 # 6-3 # 7-4 # 8-3 # 9-1 #10-2
#11-3 #12-3 #13-3 #14-4 #15-1 #16-2 #17-3 #18-2 #19-2 #20-1
#21-4 #22-1 #23-1 #24-3 #25-3 #26-2 #27-2 #28-4 #29-2 #30-3
#31-3 #32-4 #33-2 #34-1 #35-2 #36-2 #37-2 #38-3 #39-1 #40-1

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