Tear Her

REGENTS HIGH SCHOOL EXAMINATION

## PHYSICAL SETTING PHYSICS

Student Forces Key Sex:   Male  Female Grade				
Student TOYCLS Key		Sex:   Male   Female	Grade	
Teacher		School		
Record your answers to Part A and Part B-1 on this answer sheet.				
Part A		Part B-1		
13	25 2	27		
214	263	28		
3		29		
43 163		30		
5 17		31		
6		32		
72				
8				
9				
10				
11233				
12	Part A Score		Part B-1 Score	

Write your answers to Part B-2 and Part C in your answer booklet.

The declaration below should be signed when you have completed the examination.

I do hereby affirm, at the close of this examination, that I had no unlawful knowledge of the questions or answers prior to the examination and that I have neither given nor received assistance in answering any of the questions during the examination.

Signature	

The University of the State of New York

REGENTS HIGH SCHOOL EXAMINATION

## PHYSICAL SETTING PHYSICS

ANSWER BOOKLET	□ Male	
Student	Sex:  Female	
Teacher		
School	Grade	
Answer all questions in Part B-2 and Part C. Record your answers in this booklet.		

Part	Maximum Score	Student's Score
A	26	*
B-1	6	
B-2	7	
C	18	
Total Written Test Score (Maximum Raw Score: 57)  Final Score (From Conversion Chart)		
Raters' Init	ials: Rater 2	2

Part B–2	For Raters Only
33-34 $G$ $M = .5kg$ $F$ $G$	33 34
35 850 N $F_g = F_N \cos \theta = 0^\circ \cos 0^\circ = 1$ 36-37  G  V  T  T  T  T  T  T  T  T  T  T  T  T	35
$\frac{G}{M_{\kappa}=.05} \frac{U}{F_{\kappa}}$ $F_{f}=MF_{N}$ $F_{N}=850N$ $F_{f}=(.05)(850N)$ $F_{f}=42.5N$	36

Part B-2

38-39
$$\frac{G}{F} = -6000N \text{ M} + 50000 + 5000 + 5000 + 5000 + 5000 + 5000 + 5000 + 5000 + 5000 + 500$$

$$\hat{Q}$$
  $\alpha = \frac{E}{m}$ 

$$a = \frac{-6000}{1200 \text{ kg}}$$

For Raters Only

Part C

For Raters Only

40-41

$$\frac{41}{a=-2}\frac{G}{S^2}\frac{U}{F=3}$$
 $M=10$  kg

a=Fut = F=ma

F=(10kg)(-2m/s2)

Fret = -20N

magnitude of Fret = 20 N

42-43

$$m = 10. \text{ kg}$$

$$20N \qquad P$$

$$[4cm \pm .2cm]$$

Rough floor

44-45

 $\frac{G}{F_{F}} = 20N \text{ AOU}$   $0 = F_{F} = 20N \text{ FN}$  = 98.1N  $0 = F_{N} = 98.1N$   $0 = F_{N} = F_{S}(0) = F_{N} = 98.1N$   $0 = F_{N} = F_{S}(0) = F_{N} = 98.1N$   $0 = F_{N} = (10) = (9.81) = (10) =$ 

43

Part C 48 20N N Fret=ON= $F_1+F_4$ 49-50  $G_1$   $G_2$   $G_3$   $G_4$   $G_5$   $G_4$   $G_5$   $G_5$   $G_5$   $G_7$   $G_7$  G Fg=49.05N Du OFF=MFN =) M= FF = 20N FN = 49.05N FF = 20N @Fn=49.05NFn=Fgcos0=49.05Ncos0=49.05N 53 1.96 N Fq=mq=(.2kg)(9.815)  $\frac{G}{F_g} = F_N = 1.96N$   $F_F = \frac{1.96N}{F_F} = \frac{1.96N}{F_F} = \frac{1.96N}{1.96N}$ 1FF= .71N7 56 3.29 N Fret=FrFf = 4N+-71N=3.29N

For Raters Only
47
48
49
51
52
532
54
55
56

