_____ Student no. _____ Class: M2/8

Name:		Student no.	Class: M2/8
Part 1: Multiple choices			
Objective Sc. 2.2 2/11: Explain mag	netic field, ele	ctric field, gravitat	onal field and the direction of
each forces acting on an object. (Ite	ems 1-17)		
Instruction: Read each question car	efully and sele	ct the best answe	r.
The diagram below shows a force to	hat occurs on E	Earth.	
P /o			
1. What is P shows in the diagram a	above?		
a. Friction		c. Buoyancy	
b. Gravity		d. Waves	
2. P in item no.1 is best describe as			
a. The force that pulls objects toward			
b. The force that acts to stop the m	novement of tw	o surfaces in conf	act.
c. The force of the water.d. The force that makes us able to	do things		
u. The force that makes us able to	do tilligs.		
3. What will happen if the gravitation	nal pull of Eartl	h does not exist?	
I. Humans and other objects will be	come weightle	SS.	
II. The atmosphere will disappear in	to the space.		
III. There's no longer force keeping	us on the grou	ınd.	
a. I and II only		c. II and III only	
b. I and III only		d. I, II and III	
4. The diagram below shows the Eaweakest to the strongest.	arth's gravitatio	nal field. Arrange	the field strength in order from
XXXX			
	a. W,X,Y,X		c. Y,Z,W,X
J HEarth HT	b. X,Y,Z,W		d. Z,Y,X,W

	-2-
5. Calculate the weight of a thing that has a ma	ass of 5.2 kg using a formula W=mg.
a. 1.88	c. 15
b4.6	d. 50.96
6. A boy experiences an average downward for	orce of 441 Newton on Earth. Calculate his mass.
a. 45 kg	c. 4321.8 kg
b. 431.2 kg	d. 450.8 kg
7. Earth's gravitational force is	
a. 8.9 m/s ²	c. 89 m/s ²
b. 9.8 m/s ²	d. 98 m/s ²
8. Look at the figure below: Where is the magn	netic field strongest?
a. Middle line	c. All parts are equally strong
b. Poles	d. None of the above
9. From the diagram below, it is shows that ob	ject A is and object B is
A B	
a. A and B are negatively-charge	c. A is positively-charge, B is negatively-charge
b. A and B are positively charge	d. A is negatively-charge, B is positively-charge
10. Y represent an area in the combined field w	where the magnetic effect is zero. Y is called

c. Charged point

d. Inner point

a. Energy point b. Neutral point



11. Which of these patterns are correct?

Diagram A Diagram B Diagram C Diagram D Diagram E

- a. A, B and C only
- b. A, B and D only

- c. A, C and E only
- d. All of the above

Items 12-17.

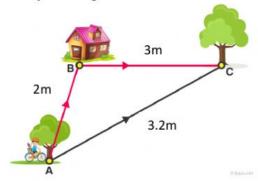
Instruction: Identify if the sentence is true or false. Select "a" for true and "b" for false.

- 12. Magnetic field do not changed with distance.
- 13. Opposite magnetic poles repel one another.
- 14. A magnetic field is strongest near North and South poles of magnet.
- 15. Gravity pulls everything down.
- 16. The strength of the gravitational field is weaker as the object is further from the Earth.
- 17. A positively-charge object gains electrons.

Objective 2.2 2/15: Explain and calculate distance and displacement. (Items 18-23)

Instruction: Read each question carefully and select the best answer.

Study the diagram below and answer items 18-21.



18. Where is the starting point?

a. Point A

c. Point C

b. Point B

d. All of the above

19. Where is the ending point?

a. Point A c. Point C

b. Point B d. All of the above

20. What is the distance?

a. 2 m c. 3.2 m

b. 5 m d. 8.9 m

21. What is the displacement?

a. 3 m c. 5 m b. 3.2 m d. 2 m

Items 22-23.

Peter walks east for 35 m, stops for a break and then runs the same direction for 25 m before he stops.

22. What is the distance that he runs?

a. 35 m c. 10 m b. 25 m d. 60 m

23. What is the displacement?

a. 35 m c. 10 m b. 25 m d. 60 m

Objective 2.2 2/14: Explain Scalar and Vector Quantity. (Items 24-32)

Instruction: Identify if the sentence is Scalar or Vector quantity. Select "a" for Scalar and "b"

Vector.

Items 24-28.

- 24. Town X is located 25 km east of Town Y.
- 25. A table is 30 cm wide and 60 cm long.
- 26. A box is 4.5 cubic feet.
- 27. Mike run around the field with a velocity of 3 m/s².
- 28. The weather drop to 8°C.



Part	2:	W	riti	ng
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Instruction: Give what is ask.

A. Determine the magnitude and direction of this vector if the Scale is 1cm: 7km.



- 29. Magnitude:
- 30. Direction:

B. Draw a scaled vector to represent a quantity that has a magnitude of 80 Newton heading southwest using a scale of 1cm : 20N.

31.				

C. Draw a scaled vector that has magnitude of 10 cm to the west.

32.				

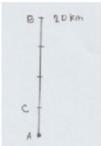


Objective 2.2 2/15: Explain and calculate distance and displacement. (Items 33-40)

Instruction: Solve for distance and displacement.

A. Harold ride his bicycle 20 km north, turn around, and then rides the bicycle 15 km back towards his starting point.

- 33. Distance:
- 34. Displacement:

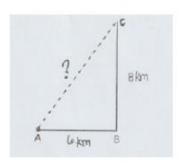


B. A man walks 3 blocks east, 2 blocks north and 3 blocks west. What is the total distance and displacement?

- 35. Distance:
- 36. Displacement:

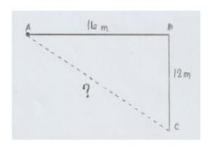


C. Determine the distance and displacement.



- 37. Distance:
- 38. Displacement:

D. Determine the distance and displacement.



- 39. Distance:
- 40. Displacement:

