## CENTRAL PUBLIC SCHOOL

Subject – Science Class – IX

## TAJPUR ROAD, SAMASTIPUR

MID TERM EXAM - 2019

Time- 3 Hrs. F. M. – 80

Section - A (Physics)

Section - A (Physics)	
1. Define non-uniform motion.	1
2. Write an example of uniform acceleration.	1
② Define inertia.	1
4. Write the S.I unit of uniform circular motion.	1
(5) What do you mean by gravity?	1
6. Define relative density.	1
7. What is upinrust?	1
(8) Define 1 joule (1 J) of work done.	1
(9) An object of mass 100 kg is accelerated uniformly from a velocity of $5ms^{-1}$	
$8ms^{-1}$ in 6 second. Calculate the initial and final momentum of the object.	3
10. Calculate the volume of g by universal law of gravitation.	3
11. Write the 2 <sup>nd</sup> Low of motion and establish F=ma, where F-applied force	
m=mass of the body and a= produce acceleration.	3
12. Write Archimedes Principle and prove it by an activity.	5
13. (a) Define fluids.	1
O (b) Define kinetic energy and potential energy with its algebraic expression Deferment betwee distance and dichlacement.  (c) The volume of 50g of a substance is 20cm <sup>3</sup> . If the density of water is	n. 2
$1g cm^{-3}$ . Will the substance float or sink?	2
Section B (Chemistry)	
Define sublimation.	1
15). Define inter molecular force.	1
16. Define chromatography.	1
17. What is ductility of a metal?	1
18. What do you mean by law of conservation of mass?	1
19. Define a molecule.	·1
20. What is polyatomic ions?	1
21. Define atomic mass unit (unified mass). If atomic mass unit of sodium is	23 u,
what does it mean?	3
22. What do you mean by atomicity of elements? Write the atomicity of He	lium,
Nitrogen, phosphorus and sulphur.	3

23. Write the difference between evaporation and vapourisation. At least two	
	3
differences.  24. How can we separate a mixture of two miscible liquid? Name the process.	
	5
Draw the diagram and label.	
Section C (Biology)	3
25. (a) Write the law of constant proportion and explain with example.	2
(b) What produces more severe burns, boiling water or steam? Why?	
26. Write the smallest and longest cell of the human body.	1
27. Where the protein synthesised inside the cell?	1
28. Who classified the five kingdom of the world of organism?	1
29. Name the tissue that store fat in our body.	1
30. Define stimuli.	1
31. Bacteria is the soul of Monera. Explain with example.	3
32. What do you mean by symbiotic relation? Explain with example.	3
(33) Write two examples of each group:	3
a. Thallophyta	
b. Bryophyte	
c. Pteridophyta	
Or,	
34. Draw a labelled diagram of Euglena or Paramecium.	3
35. (a) Define epithelial tissue.	1
(b) Write its types with one character of each.	7
(c) Draw the diagram any one of the epithelial tissue.	2
	2
36. (a) Write the differences between mitochondria and plastids.	2
(b) What is osmosis?	1
((c) Write two features of cardiac muscle.	-

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