Divisional Education Office - Nallur, Jaffna Second Term Examination - 2015

Grade: 09 Science Time: 2 Hours

Part - I Choose the most appropriate answer.

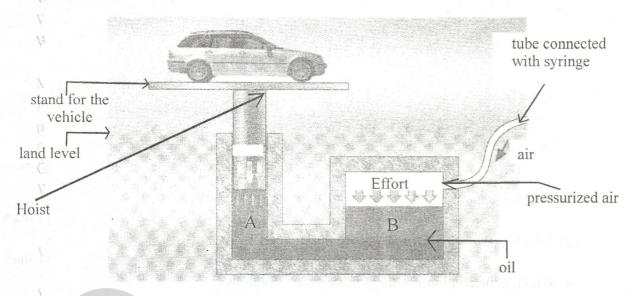
01.	Which one of the following is	scalar quantity?				
	(1) Displacement	(2) Velocity	(3) Weight	(4) Speed		
02.	In which step "making hypoth	nesis" used?				
	(1)2 nd step	(2) 3 rd step	(3)4 th step	(4) 5 th step		
03.	Who advocated strongly the h (1) Aristotle	nelios centric model a	(2) Aristar	cus		
	(3) Nicolaus copernicus		(4) Galliel	to Gaim		
04.	Which type of microorganism contributes to convert ethyl alcohol into vinegar? (1) Bacteria (2) Fungus (3) Virus (4) Yeast					
05.	What is the minimum amount that could be measured by burette?					
	(1) 0.1 ml	(2) 0.01 ml	(3) 1 ml	(4) 0.5 ml අධ්යාපන		
06.	Which type of motion occurs in the pendulum of a clock?					
	(1)Linear motion		(2) Oscilla	tion		
	(3) circular motion		(4) rotation	nal motion		
07.	An ant reaches 25m in 10 sec	onds. What is the ave	rage speed of a	ant?		
	(1) 25 x 10 ms ⁻¹ (2)	$\frac{25}{10} \mathrm{ms}^{-1}$ (3)	250 10	$\frac{10}{25}$ ms ⁻¹		
08.	Which equipment is used to resistance?	measure the quantit	ies of current	flow, potential difference and		
	(1)Voltmeter		(2) Amme	ter		
	(3) Ohmmeter		(4) multim	neter		
09.	Who introduced the type of motion of pendulum at first?					
	(1) Issac Newton	1	(2)Ptolem	y		
	(3) Gallelio Galili		(4) Kepler			

10.	Which lens is used by the re	epairer of wrist watc	h?				
	(1) plano concave lens (2) plano convex lens						
	(3) Double concave lens		(4) Double con	vex lens			
11.	Which components are use	d in amalgam for fil	ling damaged teeth?				
	(1)Silver and copper		(2) Mercury an	(2) Mercury and lead			
	(3) Silver and mercury		(4) Mercury and silver				
12.	Number of protons and rela are present in the aluminium		f aluminium are 13 and	127 . How many electrons			
	(1) 13	(2) 12	(3) 14	(4) 27			
13.	Which acid is added to copper strips for getting nitrogen dioxide gas?						
	(1) Nitric acid		(2) Hydrochloric acid				
	(3) Sulphuric acid		(4) Acetic acid				
14.	Which of the following is not a homogenous mixture?						
	(1) Sugar solution	(2) Air	(3) Tea	(4) Ice cream			
15.	Who discovered the sub atomic particle "electron"?						
	(1) Chadwick		(2) Earnest Rut	therford			
	(3) J.J Thomson		(4)Dalton				
16.	Which one of the following is not a monomer?						
	(1) Styrene	(2) Starch	(3) Isoprine	(4) Ethylene			
17.	Which is used to dissolve	rubber?					
	(1) Acetone		(2) Ethyl alcohol				
	(3) Thinner		(4) Kerosene	W109)			
18.	The fuel, which is not used in fuel cells is						
	(1) Hydrogen		(2) Methanol				
	(3) Petroleum gas		(4) Kerosene				
19.	What is the shape of nano	tube?					
	(1) Spherical shape		(2) cone shape				
	(3) cylinder shape		(4) Hexagon sh	ape			
20.	How is this year (2015) honored by united nation?						
	(1) Science and Technology year		(2) Astronomical year				
	(3) Light year		(4) Biodiversity	year			

 $[20 \times 11/2 = 30 \text{ marks}]$

Answer for Five questions including the first question.

01. The given below equipment was observed by the students of grade 9 in a garage for an assessment purpose.



1) What type of assessment is this?	
Education	[1 mark]
2) Which skills are obtained by the students who involved in this assessment?	
	[1 mark]
3) Give other equipment with the same function of this equipment?	
	[1 mark]
4) What type of simple machine is this?	
4000000	[1 mark]
5) How is the pressure needed to raise the vehicle transmitted?	
	[1 mark]
6) What is the reason for decreasing the area of A than B?	
V	[1 mark]
7) Which elements are present in the crude oil which is used here?	
	[1 mark]
8) Is the oil which is given in the question (7) renewable / non renewable? Give	reason.
	[1 mark]
9) Which poisonous gas is emitted while using the crude oil for burning?	
	[1 mark]
10) What adverse effect is created in the environment by the above mentioned ga	is?
	[1 mark]
11) Alternative energy sources are mostly used at present for minimizing env	ironmental

[1 mark]

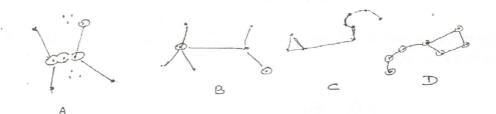
[1 mark]

pollution.

1. Give two alternative energy sources.

2. State two benefits of using alternative energy sources.

02. Write answers for the following using the given constellation.



D

1) Identify the constellation A, B, C and D.

Α

3

C

[2 marks]

2) Which structure helps you to identify the constellation A?

[1 mark]

3) Which is the brightest star in the constellation B?

[1 mark]

4) Which constellation has the brightest star "Regulus"?

[1 mark]

5) Give two differences between stars and planets.

[2 marks]

6) Name the constellation which has indicator stars.

[1 mark]

7) Which unit is used to measure the distance of planets?

[1 mark]

8) Give two galaxies which are visible to our naked eye

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[2 marks]

[11 marks]

03. "One day mid meal" given to the students in a school is shown below.

Rice, Dhal, Pumpkin curry

Soya curry, green leaves, Tomato

1) Which nutrients are present in rice and dhal curry?

[2 marks]

2) Which food shows blue-black when adding iodine drop on to it?

[1 mark]

3) Which food is more suitable for the deficiency of vitamin A?

[1 mark]

4) Which chemical substances must be taken from laboratory for testing the nutrients in the dhal curry?

[1 mark]

5) Which components are present in the above mentioned chemical substance?	[2 marks]
6) Give two matters that should be concerned when buying soya meat packet?	[2 marks]
7) What do you mean by the symbol "SLS?"	[1 mark]
8) Give two functions of the nutrients which are present in soya and dhal?	[1 mark]
	[11 marks]
The following elements were kept on a table to identify the physical and chemical some elements.	properties of
sulphur, Iorn, Magnisium, Carbon, Sodium, Zinc	
1) Differentiate the elements as metals and non metals.	[2 marks]
2) Give two physical properties of metals.	[2 marks]
3) What is your observation while burning scratched Mg tape in air?	[1 mark]
4) Give the chemical symbol of Iron and sodium	[2 marks]
5) Which element melts and forms blue colour flame while burning in air?	[1 mark]
6) Which material has allotropes and conducts electricity?	[1 mark]
7) Mention two factors which cause rusting of iron.	[2 marks]
Different types of composts are used for constructing buildings, and bridges. Not	only cement,
sand, stone and water are used but also steel rods and iron mesh are used to b bridges.	
1) Which components are present in cement mortar?	
2) Give two advantages of these above mentioned components.	[2 marks]
3) What do you mean by alloy?	[2 marks]
	[2 marks]

04.

05.

4) Write the components of steel?

[2 marks]

5) Which alloy is made by the alloy the combinations of copper and zinc?

[1mark]

6) What is the use of the alloy which was mentioned by you for the question no 5.

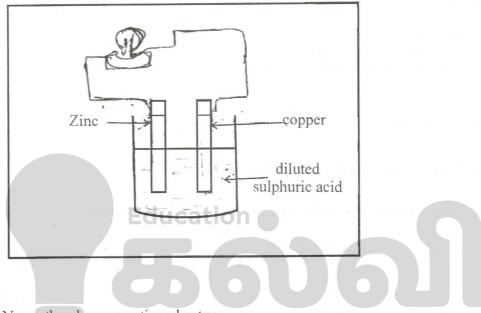
[1 mark]

7) What is the monomer of polythene?

[1 mark]

[11marks]

06.



1) Name the above mentioned setup.

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[1 mark]

2) Which electrolyte is used in this setup?

[1 mark]

3) Give two problems that arise when the setup shown above is used.

[2 marks]

Dry cell was invented to overcome these short comes

4) Which elements are used to make the positive and negative terminals of dry cell?

[2 marks]

5) Write the energy conversion occurred in a dry cell?

[1 mark]

6) What is the potential difference of a dry cell?

[1 mark]

7) Give two advantages of using dry cell than the above mentioned setup.

[2 marks]

8) Which type of electric cell is used in vehicles?

[1 mark]

[11 marks]

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