Department of Education –Western Province Second term Test Evaluation -2018 Grade 11 Subject - Science Paper -1 Time – 1 hour

Name

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Note -

- Answer all questions.
- In each of the question 1 to 40,Pick one of the alternatives 1,2,3,4 which you consider is correct or most appropriate.
- Mark a cross (x) on the number corresponding to your choice in the answer sheet provided.
- 01. Fators necessary for photosynthesis are shown in the diagram below. Factors represent by

A,B,C and D are,

- 1. Light, Oxygen, Carbondioxide, Water
- 2. Oxygen, water, Carbondioxide, glucose
- 3. Carbondioxide, oxygen, water, glucose
- 4. Water, light, oxygen, Carbondioxide



- 02. Which of the following are granulocytes and non- granulocytes respectively?
 - 1. Neutrophils, Basophils
- 2. Neutrophils, Eusinophils
- 3. Monocytes, Basophils
- 4. Neutrophils, Monocytes
- 03. What is the most suitable indicator to identify separately two solutions which contains lime juice and gastric juice?
 - 1. Llitmus papers
- 2. PH papers
- 3. Methyl Orange
- 4. Phenolphthalein
- 04. Select the answer contains only vector quantities.
 - 1. Distance, Displacement, Speed
- 2. Displacement, velocity, acceleration
- 3. Distance, Time, Mass
- 4. Displacement, Time, Mass
- 05. Which blood vessel of the human blood circulatory system contains deoxygenated blood?
 - 1. Pulmonary veins
- 2. . Coronary arteries
- 3. Pulmonary artery
- 4. Aorta

- 06. Which substance may have PH value of 7?
 - 1. Acitic acid
- 2. Ammonia
- 3. Soap water
- 4. Ethyl alcohol

07. Following are some compounds in the human small intestine Lactase, Lactose, Maltase, Maltose, Sucrase, Sucrose out of them select the correct enzyme and the substrate respectively. 1. Maltose, Maltase 2. Sucrose , Sucrase 3. Lactase, Lactose 4. Lactose, Lactase 08. Two minutes were taken to lift a cement bag of 50 kg up to 12 m from the ground. What was his rate of doing work? 1. 30 Js⁻¹ 2. 40 Js⁻¹ 3. 50 Js⁻¹ 4. 6000 Js⁻¹ 09. Select the correct answer related to the process of food digestion. Organ Type of Enzyme Substrate **End Product Pancreas Amylase** Protein **Polypeptides** Maltose 2. Salivory gland Ptyalin Starch ground **Pancreas** Pepsin Protein **Polypeptides** Small intestine **Polypeptides** 4. **Trypsin** Protein 10. Which factor does not affect on rate of a reaction? 1. Surface area of reactants 2. Temperature at which the reaction occurs 3. Concentration of reactant 4. Boiling point of the reactant 11. Which factor/s is/are affected on the friction that act on objet? a. Weight of the object b. The nature of the surfaces in contact c. The area of the surfaces in contact a and b 2. a and c 3. b and c 4. Only c 1. 12. Which is the disease that not associated with the blood circulatory system? 1. Hypertension 2. Atherosclerosis 3. Albinism 4. Hypotension 13. The genetic disorder that may occur due to sex linked recessive gene is, 1. Albinism 2. Thalassemia 3. Hemophilia 4. AIDS 14. What is the hormone secreted by pituitary gland that influence the releasing of ovum from the 2. FSH Ovary? 1. LH 3. Oestrogen 4. Projesteron 15. A. Styrofoam dissolved in petrol B. Diluted HCl solution C. Alchoholic iodine solution D. Mixture of water and aceton In wich solutions contain polar solvent and polar solute from above given solutions

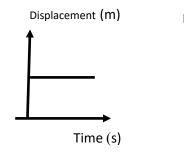
3. B and D

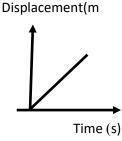
4. C and D

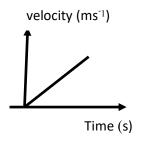
1. A and D

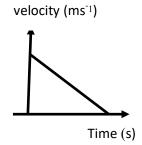
2. A and C

- 16. In which answer does a balanced chemical equation for de composition reaction contain?
 - 1.2 KMnO₄ \rightarrow 2 K₂MnO₄ + MnO₂ + O₂ 2. $Zn + CuSO_4 \longrightarrow ZnSO_4 + Cu$
 - 3.2 Mg + 2 HCl \longrightarrow 2 MgCl₂ + H₂
 - 2 H₂O + O₂ 4. 2 H₂O₂
- 17. Which graph does represent uniform velocity?









- 18. What is the force required for a motor bicycle moving with a mass of 250 Kg and uniform velocity of 12ms⁻¹to increase its velocity up to 20ms⁻¹within 10 secand?
 - 1. 2 N
- 2.120 N
- 3. 160 N
- 4. 200 N
- 19. People who are living in temperate countries wearing dark cloths and using black colour containers To cook meals. What is the phenomenon common for above situations.
 - 1. Absorption of thermal radiation
- 2. Reflection of thermal radiation
- 3. Convection of thermal radiation
- 4. Conduction of thermal radiation
- 20. The amount of heat required to supply to increase the temperature of a piece of copper with the mass of 150 g from 30° C to 50° C (Secific heat capacity of copper = $40 \text{ Jkg}^{-1}\text{K}^{-1}$)
 - 1.300 J
- 2.1200 J
- 3. 1800 J
- 4.2700
- 21. Which of the following is a compound with ionic bonds?
 - 1. CO₂
- 2. H₂O
- 3. KF

4. H₂S

- 22. What is the gas use to produce margerin?
 - 1. N₂
- 2. H₂

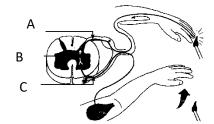
3. O₂

- 4. CO₂
- 23. What is the best statement that explain the Avogadro constant well? (H=1, C=12, O=16, Ag = 108)
 - 1. Amount of atoms contains in 108 g of silver. 2. Amount of atoms contains in 44 g of CO₂
- - 3. Amount of atoms contains in 90 g of glucose. 4. Amount of atoms contains in 34 g of ammonium

- 24. Which of the following is the best method to prepare sample of oxygen at the laboratory?
 - 1. Heating crystals of potassium permanganate.
- 2. Electrolyzing of acidulated water

3. Heating the Calsium Carbonate

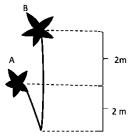
- 4. Fractional distillation of condensed air
- 25. Below given is a diagram of reflex arc. What are the neurons mark as A, B and C
 - 1. Intermediate neuron, motor neuron, sensory neuron
 - 2. Sensory neuron, Intermediate neuron, motor neuron
 - 3. motor neuron, Intermediate neuron, sensory neuron
 - 4. sensory neuron, motor neuron, intermediate neuron,



26. What is the required mass of NaOH to prepare 500 ml of NaOH solution with a concentration

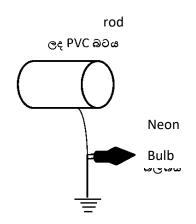
of
$$0.4 \text{ moldm}^{-3}$$
 ($N = 23$, $O=16$, $H = 1$)

- 1. 12.0 g
- 2. 8.0 g
- 3. 4.0 g
- 4. 10.0 g
- 27. An insect with a mass of 6 g is flown from the flower A to Flower B as given in the Diagram. What is the change of the potential energy of the insect? (g=10 ms⁻²)
 - 1. 2×10×6 J 2.4×10×6 J 3.6/1000×10×2 J 4.6/1000×10×4 J



- 28. If 5 LED lams with 12 W are lighted up for 4 hours, Calculate the quantity of electrical energy Spent 1. 24 kWh 2. 2.4 kWh 3. 0.24 kWh 4. 0.024 kWh
- 29. What is the percentage of parental genotypes received to the F_2 generation in a BB \times bb cross? 1.25% 2.50% 3.75% 4.100%
- 30. When considering the efficiency and life time which lamp is most suitable for energy Conversation?
 - 1. LED lamp

- 2. Filament Lamp
- 3. Compact fluorescent light (C.F.L)
- 4. Fluorescent lamp
- 31 . A PVC rod charged by rubbing with polythene is connected to the earth through the neon bulb by using a wire. Which of the following is the correct observation and explanation?
 - 1. The neon bulb lighted up once, electrons flowed from earth to PVC
 - 2. Neon bulb lighted up once, electrons flowed from PVC to the earth
 - 3. Neon bulb did not light up, electrons did not flow.
 - 4. Neon bulb did not light up, electrons flowed from PVC rod to the earth



32.The homone that prepare 1. Testosterone 2. O	•	tivate in an eme Adrenaline	rgency is, 4. Glucoger	n			
33. The amount of heat required to convert 1 Kg of water at 100° C in to steam at the same temperature is ,							
 Specific heat capacity of water . Specific latent heat of fusion of ice Specific latent heat of vaporization of water 							
34. What is the best method 1. Chromatography 2. S	•			ractional distilla	tion		
 Which answer shows the correct order of the domestic electric circuit? Electric meter, Over load circuit breaker, isolator, trip switch Over load circuit breaker, Electric meter, isolator, trip switch Over load circuit breaker, isolator, Electric meter, trip switch Isolator, Electric meter, Over load circuit breaker, trip switch 							
 36. Which phenomenon can be explained by using Newton's third law? 1. Falling a fruit from the tree 2. Motion of the boat to opposite direction of the rowing 3. Falling of passengers to the forward when apply break to the buss 							
 4. Moving of objects in the space 37. Weight of 20 N is hung a point A using a rod with 1 m. Find out the weight should place at the point B which is 45 cm away from point A to balance the rod . 							
1. 5 N 2. 60 N	3. 45 N	4. 30 N		20 N	\triangle		
38. When apply a voltage of 12 v to the main lamp of a motor vehicle, a currant of 1.5 A flows Through it. The power of main lamp of the vehicle is,							
1. 18 W 2	. 12 W	3. 15 W		4. 8 W			
39. What is the organism Wh		•	Nipha" throu	_	1 ?		
1. Fly 2	. Bat	3. Cattle		4. Rabit			
40. Which procedure that she1. Increase the consump2. Increase the consump3. Increase the consump4. Increase the body mas	tion of food wich tion of salt. tion of fiber cont	n containing satu		iseases?			