



ZONAL EDUCATION OFFICE - JAFFNA

2nd TERM EXAMINATION - 2017

SCIENCE



Index No :

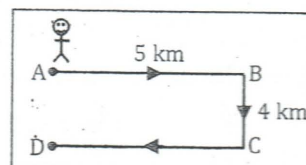
Grade : - 9


Time : 2.00 hours

PART - I

❖ Choose most appropriate answer.

- (01) Instrument that is used to observe celestial bodies
- (1) Light microscope (2) Compass
(3) Telescope (4) Electrone microscope
- (02) Method that is used to arrive correct conclusion by doing experiment about a problem
- (1) Logical method (2) Scientific method
(3) Experimental method (4) Research method
- (03) How can you call the constituents that are separated out during fractional distillation?
- (1) Hydro carbon (2) Primary energy
(3) Secondary energy (4) Primary energy source
- (04) When adding two chemical substances together, heat was felt. What is the change that took place there?
- (1) Physical change (2) Chemical change
(3) Physical and chemical change (4) Can't say anything
- (05) Given diagram shows that the motion of a person. Find out the total distance travelled by this person
- (1) 5 km (2) 0 km
(3) 14 km (4) 4 km
- (06) What is the displacement of above mentioned motion?
- (1) 14 km to the east (2) 5 km to the west
(3) 10 km to the south (4) 4 km to the south
- (07) Who put forwarded the law of conservation of mass at first?
- (1) Anthoine Lavoisier (2) John Dalton
(3) Aristorcus (4) Kepler
- (08) Chemical formula of potassium permanganate is $KMnO_4$ which element is not present here?
- (1) Potassium (2) Manganese (3) Oxygen (4) Magnesium
- (09) Which is used to make non stick pans for cooking purpose
- (1) Nylon (2) Perspex (3) Teflon (4) Poly ethelene



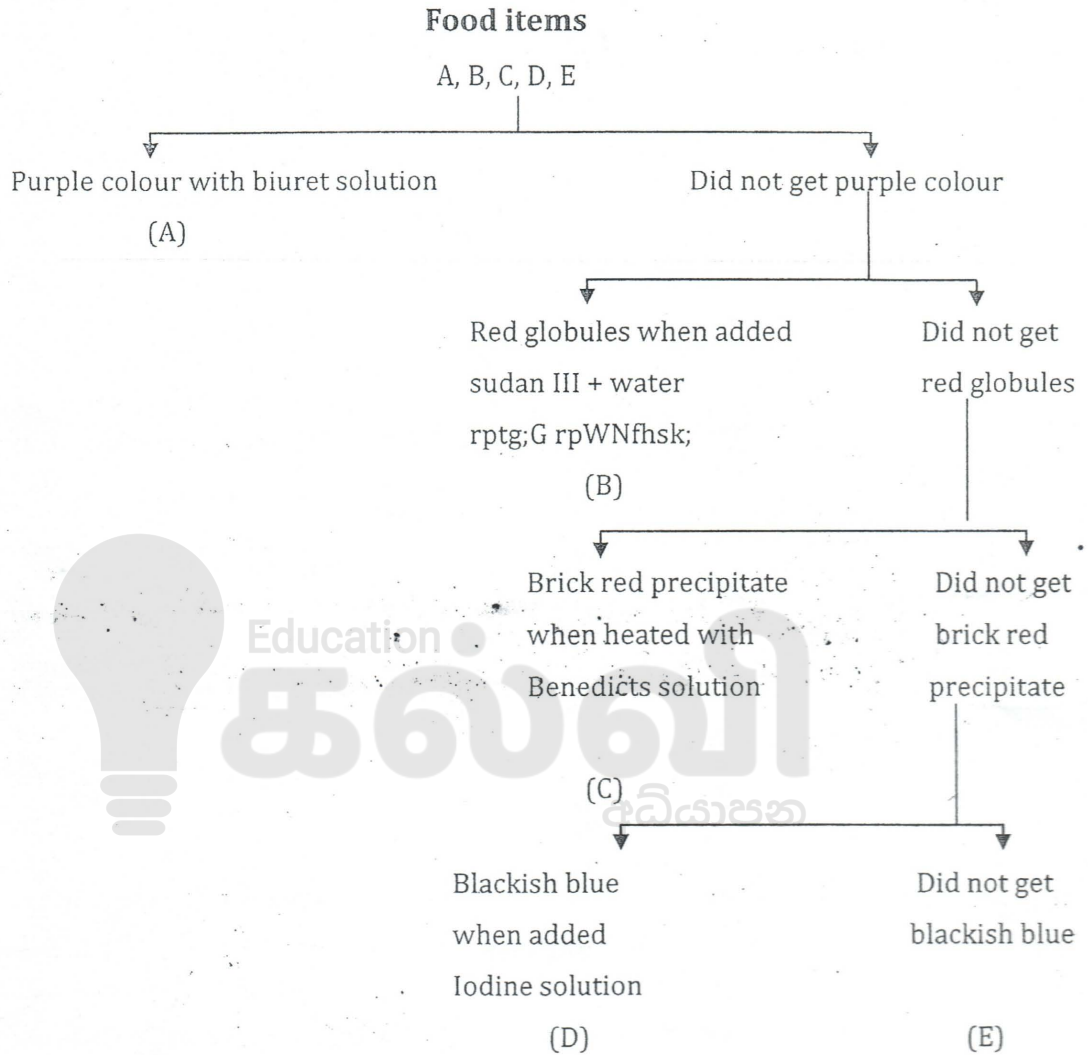
- (10) Parts of gynaecium that present in dicot flower
- (1) Stigma, Style, Ovary (2) Filament, Anther
(3) Style, Ovary, Filament (4) Style, Ovary, Anther
- (11) Which one is not a natural polymer?
- (1) Starch (2) Glycogen (3) Chitin (4) Nylon
- (12) Compositions that are used to make alloy 'pewter'
- (1) Zinc, Gold, Copper (2) Zinc, Copper, Antimony
(3) Copper, Tin, Lead (4) Nickel, Chromium, Copper
- (13) Nanometer is used in the field of Nanotechnology. How many meter is equal to one nanometer?
- (1) 10^{-6} m (2) 10^{-8} m (3) 10^{-10} m (4) 10^{-9} m
- (14) Which is the quality certification provided for maintaining high standards of production in the organization
- (1) SLS (2) ISO 9001 (3) ISO 22 000 (4) ISO 14001
- (15) Which is the element that will burn with blue flame
- (1) Magnesium (2) Carbon (3) Iron (4) Sulphur
- (16)  This symbol was used during the Alchemy era. This indicates
- (1) Antimony (2) Copper (3) Arsenic (4) Iron
- (17) What is the main component of biogas
- (1) Carbon dioxide (2) Methane (3) Water vapour (4) Hydrogen sulphide
- (18) Incorrect statement about burette
- (1) Scales have been marked from top to bottom
(2) Before measuring the volume of liquid, it should be washed out with distilled water.
(3) It has to be kept vertically when handling
(4) Always it measures the volume of adding liquid into burette
- (19) Which is the element denoted by the symbol 'Hg'
- (1) Mercury (2) Gold (3) Lead (4) Silver
- (20) 'Connecting people to nature' is the theme of environment day for this year. Which one will be expected through this theme?
- (1) People hate the nature Therefore should connect with nature
(2) People have connected together with nature
(3) People want to protect the nature
(4) People want to life together with nature without pollute the nature.

(20 x 2 = 40 Marks)

PART -- II

❖ Answer all questions.

(01) The food items are found in the test tube A, B, C, D and E. Above food items were identified by Grade 9 students through experiment. These food items are categorized by



If above food items were wheat flour, oil, egg, white and sugar.

(i) Identify A, B, C, D and E

A

B

C

D

E

(5 Marks)

(ii) Write 2 chemical substances that are needed to make biuret solution

.....
.....

(2 Marks)

- (iii) Give a chemical substance that is used to dissolve Iodine
 (1 Mark)
- (iv) When sudan III is not found in the laboratory, what can you do to identify the food items?
 (1 Mark)
- (v) Give 3 importances of food
 (1 Mark)
- (vi) Write 2 food items that are rich in protein
 (3 Marks)
- (vii) Doctors say that intake too much of carbohydrate is not good. What is the disease that associates with it?
 (2 Marks)
- (2 Marks)

- (02) (A) Micro organisms are the causes for useful and harmful effects in our day to day life.
- (i) Name 2 micro organisms
 (1 Mark)
- (ii) Write 2 instruments that are used to observe the micro organism
 (1 Mark)
- (iii) Mention the types of micro organisms that are used to produce antibiotics
 (1 Mark)
- (iv) The word will become garbage heap when there is no micro organism. What is your idea about this statement? Mention 2 types of micro organisms that will help in this situation?
 (2 Marks)
- (v) Mention 2 harmful effects of micro organism
 (1 Mark)

(B) Energy sources existing in the world are getting depleted rapidly due to the increase in energy consumption and the increase in the use of fossil fuel. Therefore alternative ways are searched to overcome energy crisis.

(i) What is energy crisis?

.....
 (1 Mark)

(ii) Mention 2 reasons for this

.....

 (1 Mark)

(iii) Give 2 examples for fossil fuels

.....

 (1 Mark)

(iv) What is the main component of biogas?

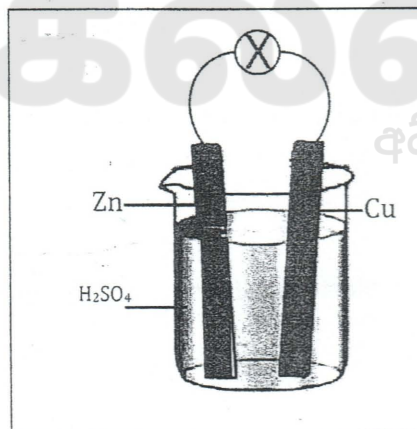
.....
 (1 Mark)

(v) Write 2 things that are used to make bio diesel?

.....

 (1 Mark)

(03) (A)



(i) Identify it.

.....
 (1 Mark)

(ii) Which is the electrolyte used here?

.....
 (1 Mark)

(iii) Identify the positive and negative terminal of this.

Positive terminal

Negative terminal

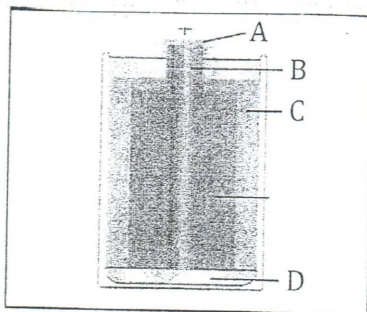
(1 Mark)

(iv) Mention 2 demerits of this cell

.....

 (1 Mark)

(B) Mention the substances that are used as



(i) Electrolyte -

Negative terminal -

(1 Mark)

(ii) A particular dry cell is indicated by 'HEAVY DUTY' type which are the substances found here?

.....

(1 Mark)

(iii) What is the common problem that will arise by both cell mentioned in A and B

.....

(1 Mark)

(iv) What is the secondary cell that was made to overcome above mentioned problem?

.....

(1 Mark)

(v) Write the voltage of electric cell that was mentioned in question (iv)

.....

(1 Mark)

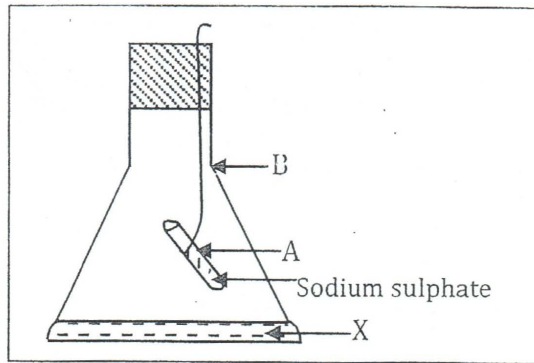
(vi) Give 2 eco friendly methods which are used for generating electricity?

.....

.....

(2 Marks)

(94) (A) This practical setup was arranged by Grade 9 students to confirm that the law of conservation of mass.



(i) Name the substance that is used to make A

.....

Mention the feature of stopper, for that it

.....

(2 Marks)

(ii) Write the chemical substance 'X' that was taken into B

.....

(1 Mark)

(iii) What is the reason for that applying grease at the stopper?

.....

(1 Mark)

(iv) Write your observation when tilting the setup for mixing two solution?

.....

(1 Mark)

(v) What is the reading that should be taken here initially and finally?

.....

(1 Mark)

(vi) What do you say about these 2 readings [Readings were taken before and after the reactions].

.....

(1 Mark)

(vii) Mention the law of conservation of mass from this activity?

.....

.....

(1 Mark)

(B) In schools, Awareness programme is carried out to restrict the usage of polythene

(i) Polythene is an artificial polymer.

Mention the monomer of it

.....

(1 Mark)

(ii) Give 3 special features of polythene?

.....
.....
.....

(1 Mark)

(iii) Mention 3 problems that are faced by polythene usage.

.....
.....
.....

(1 Mark)

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(05) (A) Answer the following questions using given data.

- A - shiny surface and occur in the form of metal strip
- B - has allotrope and black coloured substance with high refractive index
- C - Yellow coloured solid

(i) Identify above elements

A -
B -
C -

(3 Marks)

(ii) A metal released a gas when added with diluted Hydro chloric acid. Name that metal

.....

(1 Mark)

(iii) Write the word equation for the reaction mentioned in questions (ii)

.....

(1 Mark)

(iv) When a substance burnt, a gas was released with choking smell. Name that gas

.....

(1 Mark)

(v) Write the harmful effect caused by that gas

.....

(1 Mark)

(B) Complete the following.

| Alloy | Composition | Characteristics |
|-----------|-------------------------------|---|
| i)..... | Cu, Zn | golden colour Moderately rigid |
| Bronze | ii).....,,, | does not corrode does not wear off easily |
| iii)..... | Ag, Cu | Stronger than silver and shinny |
| iv)..... | Fe, Ni | Thermal expansion is very low |

(4 Marks)

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எங்கள் குறிக்கோள்

எண்ணிம உலகத்தில் மாணவர்களிற்கென சிறந்ததொரு கற்றல் கட்டமைப்பை உருவாக்குதல்.

அனைத்தும் டிஜிட்டல் மயப்படுத்தப்பட்ட இந்த காலத்தில் பல்வேறு துறைகளும் கால ஓட்டத்துடன் இணைந்து டிஜிட்டல் தளத்தில் பல்கிப்பெருகி வருகின்றன. அந்த வகையில் கல்வித்துறையும் இதற்கு விதிவிலக்கல்ல. இணையவழி கல்வியின் மூலம் கல்வித்துறை புதியதொரு பரிமாணத்தை எட்டியுள்ளது. குறிப்பாக கொரோனா பேரிடர் காலத்தில் நாடே முடக்கப்பட்டிருந்தது. இதனால் மாணவர்களிற்கும் பாடசாலை, கல்வி நிறுவனங்களிற்கு இடையிலான தொடர்பு துண்டிக்கப்பட்டது. அந்த இக்கட்டான சூழ்நிலையில் இணையவழி வகுப்புகள் மாணவர்களிற்கு வரப்பிரசாதமாக அமைந்தது என்பதே உண்மை.

இன்று தொழில்நுட்பம் மாணவர்களை தவறான பாதைக்கு இட்டு செல்வதாக ஓர் எண்ண ஓட்டம் மக்கள் மத்தியில் உள்ளது. தொழில்நுட்பம் என்பது ஒரு கருவி மட்டுமே அதை எவ்வாறு பயன்படுத்துகிறோம் என்பதில் அதன் ஆக்க மற்றும் அழிவு விளைவுகள் தீர்மானிக்கப்படுகிறது. உளியை கொண்டு சிலையை செதுக்க நினைத்தால் அவன் நிச்சயம் சிற்பி ஆகலாம். இங்கு பிரச்சினையாக காணப்படுவது மாணவர்களை வழிப்படுத்த தொழில்நுட்ப உலகில் ஓர் முறையான கட்டமைப்பு இல்லாமையே. அதை உருவாக்குவதே எங்கள் நோக்கம். அதை நோக்கியே எங்கள் பயணம் அமையும்.

எமது இணையத்தினூடக ஊடக உங்களிற்கு தேவையான பரீட்சை வினாத்தாள்களை இலகுவான முறையில் தரவிறக்கம் செய்து கொள்ளமுடியும்.

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கல்வி சார் செய்திகளை உடனுக்குடன் அறிந்து கொள்ள எமது சமூக ஊடக தளங்களின் ஊடக உடனுக்குடன் அறிந்து கொள்ள முடியும்.



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