

Mid Year Examination - 2015

Science

Grade 09

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Time: 02 Hours

Name/ Index No.

PART - I

• Answer all the questions.

01 A disease causing fungi is,

- (1) Tuberculosis (2) Measles (3) Syphilis (4) Aluham

02 Consider the statements given below.

A Milk which bottled after sterilisation is known as Kalkiri.

B When Producing Kalkiri it is heated at 134 °C degrees.

C Pasteurized milk to be stored in a refrigerator.

D Kalkiri is rich with nutritional value than pasteurised milk.

Correct statement /s from the above is / are,

- (1) A (2) A, B (3) A, B, C (4) A, B, C, D

03 Equipment used to measure electric current is,

- (1) Volt meter (2) Ohm meter (3) Ammeter (4) Mili volt meter

04 Persn who presented geo - centric model related to the motion of planets and sun is,

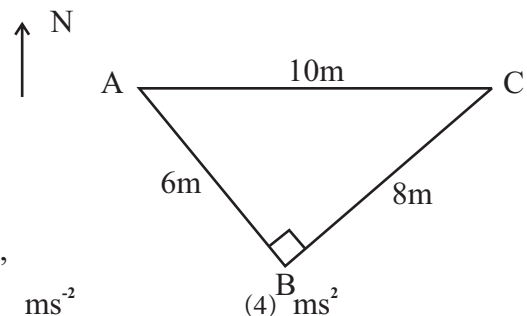
- (1) Aristotal (2) Pythagorous  
(3) Nicolaus Copernicus (4) Thales

05 Star pattern with the brightest star can be seen in night sky is,

- (1) Pleiades (2) Canis major (3) Ursa minor (4) Southern Cross

06 The figure shows motion of a motor car starts from city A and travels to city C across city B. Answer with the displacement and the distance from A to C is,

- (1) 14m, 10m towards East.  
(2) 10m towards East, 14m  
(3) 14m towards East, 10m  
(4) 8m towards East, 16m



07 Standard symbol of measuring displacement is,


- (1)  $ms^{-1}$  (2)  $Kmh^{-1}$  (3)  $ms^{-2}$  (4)  $ms^2$

08 Type of simple machine which common plier; nose plier and lever for removing tyres are belong to is,

- (1) inclined plane (2) wheel and axel (3) pulley (4) lever

09 Not a primary source of energy is,

- (1) wind (2) bio mass (3) geo thermal (4) crude oil

- 10 Standard symbol of element 'tin' is,  
 (1) Tn (2) Pb (3) Ti (4) Sn
- 11 Compound, represented by the chemical formula  $H_2O_2$  is,  
 (1) Water (2) Methene  
 (3) Vinegar (4) Hydrogen Peroxide
- 12 Element which does not react with acids is,  
 (1) Magnesium (2) Iron (3) Carbon (4) Alluminium
- 13 Select the false statement about Acids and bases,  
 (1) Weak acids contain in lemon, orange etc.,  
 (2) Strong acid secretes in stomach.  
 (3) Acids changes the colour of blue litmus into red.  
 (4) Base is formed in curd.
- 14 Alloy, produced by mixing metals Copper, Tin and Lead is,  
 (1) Brass (2) Bronze (3) Puter (4) Duralumin
- 15 Reagent which used to identify Carbohydrates is,  
 (1) Iodine solution (2) Benedict solution  
 (3) Sudan III solution (4) Biuret solution
- 16  A consumer product with this standard logo is,  
 (1) a packet of milk powder. (2) a box of matches.  
 (3) a soap. (4) a bottle of jam.
- 17 Select the material does not include in a dry cell,  
 (1) Carbon (2) Manganese Dioxide  
 (3) Ammonium Chloride (4) Sulphuric acid
- 18 Natural Rubber is a polymer. It is formed by,  
 (1) Amino acids (2) Chloroprene (3) Isoprene (4) Glucose
- 19 A factor which does not affect to the strength of current generates in a dynamo is,  
 (1) number of turns of coil. (2) speed of rotation.  
 (3) thickness of the wire used for the coil. (4) strength of magnetic field.
- 20 A nano meter is,  
 (1) 0.000000001m (2) 0.000001m (3) 0.001m (4) 0.01m

(2 x 20 = 40)

## PART - II

● **Answer 05 questions only.**

- 01 All the Matters on earth formed by elements. Compounds are formed by combining elements chemically. Following are several elements and compounds.

$H_2O$	Zn	$CO(NH_2)_2$ (Urea)
K	Carbon	Iron
HCl	Gold	NaCl

Answer the following questions using the above table.

- (1) How many elements are in the table given by symbols or name? (01m.)
- (2) How many compounds are there? (01m.)
- (3) Write the standard symbol of iron. (01m.)
- (4) Write down the chemical name of NaCl. (01m.)
- (5) What are the elements of Urea? (02m.)
- (6) Write down that by reacting which substances of the above table following observations can be received.
  - (a) Heating
  - (b) Cooling (02m.)
- (7) Mention a metallic element and a non-metallic element from the elements given in the table. (02m.)
- (8) What is the gas formed when reacts Magnesium with dilute hydrochloric acid?(01m.)
- (9) Who is the scientist who presented law of conservation of mass? (01m.)

02 A Name the instrument used for following tests doing in laboratory.

- (1) Preparing a solution with a certain concentration.
- (2) Measuring a small volume of liquid more accurately.
- (3) Measuring all 3 quantities current, potential difference and resistance.
- (4) Collecting a liquid to a definite place by small amounts. ( $\frac{1}{2} \times 4 = 02$ )

B Following is a procedure takes place in a chemical industry uses micro - organisms.



- (1) Fill in the blanks (a) and (b) in the above process. (02m.)
- (2) What is known as sweet toddy? (01m.)
- (3) What is the industry shown by this process? (01m.)
- (4) What is the acid produced by Lacto bacillus when coagulating milk? (01m.)
- (5) Mention an antibiotic used to cure diseases infected by bacteria. (01m.)
- (6) Name the pathogens caused for following diseases.
  - (a) Malaria
  - (b) Amoebic dysentery (01m.)
- (7) Name two microscopes uses for observing micro - organisms. (01m.)
- (8) What is the maximum magnification of a light micro scape ? (01m.)
- (9) Write down basic steps for of scientific method. (01m.)

03 Following table shows the variation of velocity of an object starts from stationary state with time.

Time (s)	0	1	2	3	4
Velocity ( $\text{ms}^{-1}$ )	0	3	6	9	12

- (1) Calculate the acceleration of object. (02m.)

- (2) Express  $36\text{kmh}^{-1}$  in meters per seconds ( $\text{ms}^{-1}$ ). (01m.)
- (3) What is displacement? (01m.)
- (4) Name two main forms of energy resources. (02m.)
- (5) What is the form of energy resources of bio - mass? (01m.)
- (6) Name the energy resource used for each of following task.
- (a) Producing salt in a saltern.
- (b) burning bricks.
- (c) lighting an electric bulb. (03m.)
- (7) Name 4 alternative energy resource can be used as a solution to the energy crisis. (02m.)
- 04 Next era of man who is doing the development of technology is Nano era.
- (1) Who is considered as the father of nano technology? (01m.)
- (2) Mention a natural nano system. (01m.)
- (3) Write down a special feature can be seen in products mentioned below produced by using nano technology.
- (a) Nano paints (b) Nano electric conductors
- (c) Nano clothes. (03m.)
- (4) Write 2 adverse effects of nano technology for human beings. (02m.)
- (5) W h a t i s a n a l l o y ? (01m.)
- (6) Name the constituent elements contain in following alloys.
- (a) Brass (b) Bronze (c) Steel (d) Nichrome (04m.)
- 05 Electricity has become an essential thing in human life.
- (1) Mention main 3 ways of generating electricity. (03m.)
- (2) Draw a diagram of a dry cell and name the parts. (03m.)
- (3) What are secondary cells? (01m.)
- (4) Homogenous mixtures are known as solutions. Write the constituents of following solutions.
- (a) Soda (b) Alcohol Solution (c) Brass (03m.)
- (5) (a) W h a t i s t h e s o l v e n t a n d (01m.)
- (b) What is the solute of a sugar solution? (01m.)
- 06 Observing stars in night sky is a hobby of people with curiosity.
- (1) Name the astronomer who presented helio - centric model strongly. (01m.)
- (2) Mention the facts that revealed by the astronomers mentioned below.
- (a) Pythagorous (b) Aristotal (c) Aristacus (03m.)
- (3) Draw the star pattern included with main seven stars of Orion constellation. (02m.)
- (4) In the above Orion constellation you drawn name two giant stars Betelgeuse and Rigel. (02m.)



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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.**

# kalvi.lk

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



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