

- Select the most correct or most appropriate answer from the given answers (1), (2), (3), (4) from question No. 1 to 40.
- Put (x) mark on the relevant answer in front of the question number in the answer sheet provided.

01.	Relevant to which of the	following plant does wa	ter act as the pollinating	agent?
	(1) Lotus	(2) Kekatiya	(3) Olu	(4) Valisnaria
02.	An aquatic, predaceous a	animal which shows the (2) Tuna	radial symmetry is, (3) Sea anemone	(4) Cuttle fish
03.	The SI unit of work done (1) kg m s <sup>-2</sup>	using the fundamental t (2) kg m² s²	inits is, (3) kg m <sup>-2</sup> s <sup>-2</sup>	(4) kg m2 s2
04.	A solution of 250 cm <sup>3</sup> w	as prepared by adding o	distilled water to 50 cm <sup>3</sup>	of pure ethyl alcohol. What is the

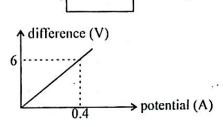
- 04. A solution of 250 cm<sup>3</sup> was prepared by adding distilled water to 50 cm<sup>3</sup> of pure ethyl alcohol. What is the Volume fraction of ethyl alcohol in this solution?
  - (1)  $\frac{50}{200}$  (2)  $\frac{50}{250}$  (3)  $\frac{50}{300}$  (4)  $\frac{250}{50}$
- 05. The reaction takes place making a precipitation when Zn is added to aquous FeSO, solution. To which type of reaction does it belong?
  - (1) chemical combination

(2) chemical decomposition

(3) single displacement

- (4) double displacement
- 06. The diagram below shows a root system taken from a certain plant. Which of the following feature cannot be seen in this plant?
  - (1) locating leaves with parallel venation
  - (2) having a stem with the cambium tissue
  - (3) having lateral buds
  - (4) having 5 petals in flowers
- 07. The pair of substance X and Y react in living cells and produce energy, carbondioxide gas and water. X and Y respectively are,
  - (1) Minerals and Oxygen

- (2) Nucleic acids and Oxygen
- (3) Simple foods and Oxygen
- (4) Vitamins and Oxygen
- 08. An object with the mass of 3kg is accelerated under the system of forces shown below. Which of the following is the acceleration?
  - $(1) 9 \text{ m s}^{-2}$
- $(2) 13 \,\mathrm{m \, s}^2$
- (3) 21 m s<sup>-2</sup>
- (4) 60 m s<sup>-2</sup>
- 09. The graph below shows how the current flowing through the resistor R changes with the potential difference at the two ends of it. What is the value of R?
  - $(1) 2.4 \Omega$
- $(2) 5.6 \Omega$
- (3) 15  $\Omega$
- $(4)24\Omega$



•	$A = {}^{23}Na^{4}$	$B = \frac{16}{8}O^{2}$	C 17	$D = {}^{16}_{32} S_{3}$
	Questions No. 10 and 1	1 are based on A, B, C	and D.	
10.	The two ions with simil	ar number of electrons a	re, (3) B and C	(4) B and D
11.	The number of electron (1) 8 and 8	s and neutrons present in (2) 16 and 8	the ion represented as (3) 8 and 16	(4) 10 and 8
12.	Four plants are shown a  A - Cycas	is A, B, C and D. B - Paddy a, B, C and D can seeds b	C - Ferns	D - Peanut
	(1) A, B and C	(2) A, C and D	(3) A, B and D	(4) B, C and D
13.	<ul><li>Made out of</li><li>Many nuclei</li><li>Mitochondri</li></ul>	ow can be observed in an long cylindrical cells. can be seen in a cell. a are abundant in a cell. a above features containerssue		tissue
14.	A, B, C and D are f tightening a bolt using	our places that the sam	ne force is applied w	
	(1) A	(2) B	(3) C	(4) D
15.	resistance acting on the of it?	(2) 10 <sup>3</sup> N	(3) 10 <sup>2</sup> N	elocity of 20 m s <sup>-1</sup> . The overall force of the engine on the vehicle for the motion  (4) 10 <sup>1</sup> N  with the concentration of 1 mol dm <sup>-3</sup> is,
16.	(The relative molecula	ar mass of glucose is 180	)	
	(1) 10 g	(2) 18 g	(3) 90 g	(4) 180 g
17.	Polar organic (1) B	nt classifies 4 solvents A - non polar organic C C	ether, B - water, C - ca Polar inorganic A B	rbondisulphide, D - acetone correctly?  Non polar inorganic  D  D
	(2) A (3) A	D	C	В
	(4) D	A	В	C
18.	The epithelial tissue, (1) Covers surfaces. (3) Perceives stimul	in certain instances.	(4) Does all these f	
19.	obtained by the new p	lants is, (2) 1 : 2 : 1	(3) 2 : 1 : 1	th the genotype Tt. The ratio of genotype  (4) 1:1:2
20	surfaces are placed pressure created on the	nows a piece of iron with in contact on a plane ese surfaces are $P_A$ , $P_B$ ar ag is correct regarding $P_A$ (2) $P_A > P_B > P_C$ (4) $P_A < P_C < P_B$	horizontal surface. To $P_c$ .	B, and C Then the  3cm A C B

21.	These four diagrams show how a light ray that falls parallel to the principle axis of a convex mirror behaves.  What is the correct diagram?
	$(1) \qquad (2) \qquad (3) \qquad (4)$
	$\rightarrow $
22.	A light rod is pivoted at the centre and balanced horizontally. Two balloons filled with A and B gases
	are hung either sides of it. The diagram below shows how the rod is balanced after it. A and B gases
	respectively can be,
	(1) $O_1$ and $H_2$ (2) $H_2$ and $CO_2$ Pivoted point $\checkmark$
	(3) $O_2$ and $N_2$ (4) $CO_2$ and $H_2$
23.	The volume of gases collected with the time in a chemical reaction is tabulated. The table below shows it.
	time (min) $0$ $2$ $4$ $6$ $8$ $10$ the volume of gas collected (cm <sup>3</sup> ) $0$ $15$ $25$ $30$ $30$ $30$
	the volume of gas collected (cm <sup>3</sup> ) 0 15 25 30 30 30  According to this table, the reaction should be ended,
	(1) during the fourth minute (2) during the fifth minute
	(3) during the sixth minute (4) during the tenth minute
24.	10 g of Ca(OH), is added little by little to 100 g of distilled water at the temperature of 30°C and stirred by a
	glass rod. In one instance, it can be observed that the amount added is not dissolved and deposited at the
	bottom of the beaker. The mass of the remained Ca(OH), is measured. It is 8 g. According to it, the solubility
	of Ca(OH), in water at the temperature of 30°C is,
	(1) $2 g$ (2) $5 g$ (3) $8 g$ (4) $10 g$
25.	The mass of a block of wood is 10kg. It is placed on a horizontal table. What is the reactant force applied by
	the table on the block of wood?
	(1) $1000 \mathrm{N}$ (2) $100 \mathrm{N}$ (3) $10 \mathrm{N}$ (4) $1 \mathrm{N}$
26.	(a) $H_z + (b) N_z \rightarrow (c) NH_z$ is a balanced chemical reaction. Which of the following answers show the relevant
	values for (a), (b) and (c)? (1) 2, 3, 2 (2) 2, 1, 3 (3) 3, 1, 2 (4) 3, 2, 2
27.	According to the reaction CaCO <sub>3</sub> $\rightarrow$ CaO + CO <sub>2</sub> the maximum mass of CaO that can be obtained by 200g of CaCO <sub>2</sub> is. (Ca = 40, C = 12, O = 16)
•	
28.	A diagram of a plant cell is shown below. What are the parts shown here that cannot be seen in animal cells?
	(I) only A and B
	(2) only A and C cell membrane (C)
	(3) only B and C cyto plasm (D)
	(4) only A, B and E vacuole (E)
29.	Two plant specimens A and B are observed under the compound microscope. The tissues present in them are identified as parenchyma and sclerenchyma respectively. Which of the following plant parts can be the
	specimens A and B respectively?
	(1) A yam of potato, a yam of carrot
	(2) A yam of potato, a date seed
	(3) mid vein of a leaf of bitter gourd, a yam of carrot
	(4) a coffee seed, a yam of carrot
30.	A paper on which the letter 'F' is printed is placed in between the pole and the focus of a concave mirror to the
	left side of it. The image observed through the mirror is, (1) an enlarged one which is seen as F. (2) an enlarged one which is seen as F.
	(2) an entarged one which is seen as F. (2) a diminished one which is seen as F.
	This diagram shows how a boat in which the item A is loaded floats on water. In this instance an upthrust
31.	force of 10° N is acting on the boat. The upthrust force on the boat when the item A is removed is 10° N.
	Which of the following is the mass of the object?
	(1) $10^2 \text{kg}$ (2) $10^3 \text{kg}$
	(3) $10^4 \text{ kg}$ (4) $10^5 \text{ kg}$
	03

32. 5 ml of an extraction taken by grinding a food in water is taken to a test tube. It was shaken by adding excess amount of NaOH. Later few drops of CuSO<sub>4</sub> was added to it. Then pinkish purple colour was observed. The conclusion that can be attained by this is that, (2) food contains nucleic acids (1) food contains carbohydrates (4) food contains lipids The mean mass of a bunch of bananas obtained from a plantation grown in a normal sunlight is 20 kg. When they are allowed to grow in the same environment by covering the bunch of bananas by blue polythene, the mean mass is 30kg. What is the conclusion that can be attained by this? (1) Photosynthesis is faster in normal light. (2) Photosynthesis is more faster in normal light rather than in the blue light. (3) Photosynthesis is faster in blue light. (4) Photosynthesis is faster in blue light rather than in normal light. 34. A clean iron nail is put into an acidic KMnO<sub>4</sub> solution. Which of the following is the significant observation (2) Surface of the iron nail gets brown coloured. obtained from it? (1) Solution become colourless. (4) Emitting gas bubbles speedily. (3) Surface of the iron nail gets colourless. 35. A very heavy beam of iron C is placed perpendicularly on 2 cylindrical Cblocks of wood A and B which are kept broad - wise. When a force of F is applied in the horizontal direction, it moves forward slowly on A and B. P, Q and R are four statements relevant to this phenomena. horizontal surface (P) - A and B decrease the frictional force between the horizontal force and C. (Q)- C does not move when F force is applied removing A and B. (R)- The static frictional force between C and the horizontal force is F when the force F is applied removing A and B. Out of these statements, (2) only Q and R are true. (1) only Pand Q are true. (4) all P, Q and R are false. (3) all P, Q and R are true. The diagram below shows a load of 100 N which is hung by 2 light strings. Question No. 36 and 37 are based on this diagram. Which of the following is the correct statement regarding the resultant force exerted by strings? (1) It is 100 N and acts vertically upwards. (2) It is 100 N and acts vertically upwards along the centre of gravity of the load. -strings (3) It is 100 N and acts vertically down. (4) It is 100 N and acts vertically down along the centre of gravity of the load. load 37. If one string is broken and the load is hung by the other, the tension of it is, (3) higher than 100 N (4) 200 N (2) less than 100 N (1) 100 NThe value of A and B resistors are  $6\Omega$  and  $4\Omega$  respectively. Four ways of connecting two A resistors and two B resistors are shown below. In which diagram is the equivalent resistance  $5\Omega$ ? (2)(1) (4)B (3)39. The environmental disequilibrium which became the massive outburst in 2019 in Sri Lanka is, (2) Falling hoar frost (mal thuhina) to Nuwara eliya area. (1) The north east areas getting under water. (4) Threat created by "sena" caterpillar to agricultural crops. (3) Decreasing the price of pumpkin rapidly. 40. Which of the following characteristic of CO<sub>2</sub> is the reason for its ability to extinguish fire? (2) property of not supporting combustion. (1) less density than that of air. (4) dissolving in water to a certain extent. (3) being a colourless gas.

04

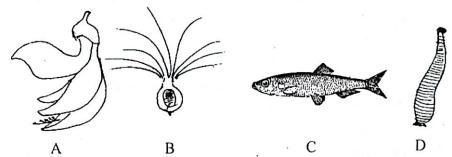
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struction	S :-	<ul> <li>Answer the four questions in Part A, in the space provided.</li> <li>Of the five questions in Part B answer the questions only. After answering, tie Part A and the</li> </ul>
		Part - A (Structured essay)
1) Two ne	ewsp	aper headlines are shown below.
•		
•	On	average six people die each day in Sri Lanka due to road accidents.
(A)	(i)	What is the main reason for the elephant - human conflict?
	(ii)	Put forward an effective suggestion to reduce the elephant human conflict.
	(iii)	(a) According to the given two headlines, what is the reason for the highest number of deaths in Sri Lanka?
		(b) Mention the reason for your answer
	(iv)	(a) A wild elephant walks about 20km per day to fulfill its food requirement.
		What is the mode of nutrition of elephants?
(B)	(i)	Write two reasons for increasing road accidents.
	(ii)	Running motor vehicles is the main reason for environmental pollution. Write 3 points to explain

	(iii)	(TI	trol is used as the fuel in certain vehicles. The main constituent of petrol is certain vehicles.
		(a)	If an octane molecule produces only CO <sub>2</sub> and H <sub>2</sub> O in the complete combustion, write the balanced equation for the total combustion of an octane molecule.
		(b)	Find the mass of CO <sub>1</sub> released to the environment by subjecting 228g of Octane for the tota combustion?
(02) (A)	The follo	not owin	e below shows two processes taken place in the bodies of woman and man. Answer the ag questions using it.
			man woman  meiosis  P cells  joining together  R cells
			differentiation and development  female or male infant
	(i)		Write separately the kinds of cells represented as P and Q.  P
		(c)	P
		(d)	Out of the above chromosomes,  (1) What are the two types of sex chromosomes present in P?
			(2) What is the type of sex chromosome present in Q?
	(ii)		What is the scientific word used for joining together shown in note?
			In which structure that belongs to the female reproductive system does it take place?
	(iii)		What is the type of cell division taken place in the differentiation process in R?
		(b)	Represent the above mentioned method of cell division in a suitable diagram.

(B)	Rep	roduction of developed plants take place in two main methods.				
	(i)	Name the above 2 methods.				
	(ii)	Out of the above 2 methods, what is the method of reproduction that takes place without the participation of gametes?				
(03) (A)	The	diagrams (1), (2) and (3) show Lewis dot and cross diagrams of 3 molecules made by $X$ , $Y$ and $Z$ are not standard symbols.				
		$X \stackrel{*xx}{\stackrel{*xx}{\sim}} X \stackrel{xx}{\stackrel{*x}{\sim}} X \stackrel{*x}{\stackrel{*x}{\sim}} X \qquad \qquad \stackrel{*xx}{\stackrel{*xx}{\sim}} \stackrel{*xx}{\stackrel{*xx}{\sim}} X \qquad \qquad \stackrel{*xx}{\stackrel{*x}{\sim}} X \qquad \qquad \stackrel{*x}{\stackrel{*x}{\sim}} X \qquad \qquad \qquad \stackrel{*x}{\stackrel{*x}{\sim}} X \qquad \qquad \qquad \stackrel{*x}{\stackrel{*x}{\sim}} X \qquad \qquad$				
	Stu	dy the diagrams above and answer the questions below.				
	(i)	What is the valency of the atom Z?				
	(ii)	What is the diagram that shows a homoatomic molecule?				
	(iii)	What is the type of bond present in molecules shown in the above diagrams?				
	(iv)	Write the molecular formula of the molecule shown in the diagram (1).				
	(v)	If the atomic numbers of X, Y and Z atoms are less than 10, identify each atom.  X				
(B)	Λ	B, C and D below show several activities done in the laboratory.				
(B)	Λ,	A - Adding pieces of zinc into a test tube with aquous solution of CuSO <sub>4</sub> .				
		B - Adding aquous solution of BaCl, to a test tube with aquous solution of Na <sub>2</sub> SO <sub>4</sub> .				
		C - Adding diluted HCl to a test tube with pieces of Zinc.				
		D - Heating the bottom of a boiling tube with some amount of KMnO, by a bunsen burner.				
	(i)	(a) In which tube can gas bubbles be observed?				
		(b) In which tube can reddish brown precipitation be observed?				
		(c) In which tube can white colour precipitation be obtained?				
		(d) Which tube emits Oxygen gas?				

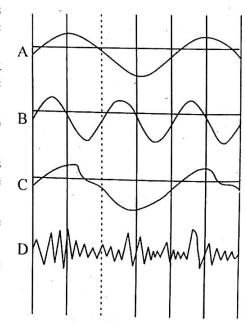
	(ii)	(a) Show in a balanced chemical equation the reaction taken place in tube C.								
		(b) What type of reaction is it?								
		(c) After the reaction, what is the metalic ion present in the solution in tube C?								
(04) (A)	(acceleration due to gravity is 10 m s <sup>2</sup> ). An incomplete table below shows how the velocity cha with time relevant for the motion of this object.									
		Time (s) 0 1 2 3 4 5 6 Velocity (ms <sup>-1</sup> ) 30 (a) (b) (c) -10 (d) (e)								
	(i)	Mention the velocities relevant for (a), (b), (c), (d) and (e) places in the table.								
		(a) (b) (c) (d) (e)								
	(ii)	Why is the velocity shown as -10 ms <sup>-1</sup> at the 4th second after starting the motion?								
	(iii)	Will the change of displacement take place in equal amounts during 0s - 3s?								
	(iv)	One instance that shows 25m displacement relative to the earth surface is 1s after starting the motion. What is the other instance?								
(B)	surf	glass ball is released keeping at A in the curved face shown in the diagram. It goes to C passing B again moves to the opposite direction.								
	(i) Out of kinetic energy and potential energy, mention which energy is maximum and zero when the glass ball is at A position.									
		Maximum								
		Zero								
	(ii)	What is the energy transformation taken place when the glass ball is moving from B to C?								
	(iii)	What is the reason for A and B not being at the some height?								
	(iv)	At which point during the movement from A to C does the ball's momentum maximize?								

(05) (A) Several specimens of organisms studied in a field trip are shown below.

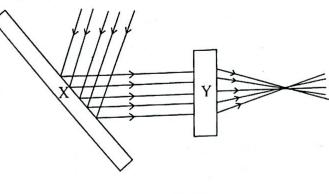


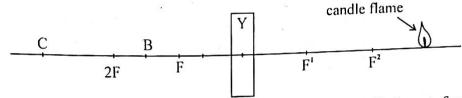
- (i) Mention the letters which show vertebrate and invertebrate separately from the specimens A, B, C and D.
- (ii) (a) Mention the pollinating agent of the flower A.
  - (b) Mention a structural adaptation present in the flower for it.
  - (c) The flower A is born in a dicotyledonous plant. Mention a feature present in the flower A belonging to the group of dicotyledonous plants.
- (iii) (a) What is the living environment of organism C.
  - (b) Write two structural adaptations possessed by the organism C to live in this environment.
- (iv) (a) What is the dispersal agent of specimen B?
  - (b) Mention a structural adaptation seen in B to disperse it in that way.
- (v) (a) The organism D belongs to the phylum annelida. Write a common feature that can be seen in the phylum annelida.
  - (b) Name another organism belonging to the group of annelida group other than D.
- (vi) What is the main difference of the body cover of the two organisms C and D?
- (vii) If the organism C is taken completely as the food of man,
  - (a) What is the main nutrient obtained by him?
  - (b) What is the main mineral obtained by him?
  - (c) Name the four main elements present in the nutrient, you mentioned in part (a) above.
  - (d) Mention the deficiency symptom that occurs in the body due to lack of the mineral you mentioned in part (b) above.
- (06) (A) (i) A 100 g of solution is prepared by dissolving 30 g of MgCl, in pure water at 25°C.
  - (a) What is the reason for selecting water to prepare the solution of MgCl, ? Explain it.
  - (b) What is the mass fraction of MgCl, in the above MgCl, solution?
  - (ii) (a) Another 20 g of MgCl<sub>2</sub> is added to the solution prepared in part (1) and stirred well. After some time it was observed that a small amount of MgCl<sub>2</sub> is left at the bottom of the beaker. What is the special name used to identify this type of solutions?
    - (b) The above solution is heated up to 60°C.
      - (1) Mention an important observation that can be seen here.
      - (2) Explain the reason for it.

- (B) The order of steps of a laboratory activity are shown below.
  - A Removing the outer coating of sugar cane.
  - B Grinding the remaining part well.
  - C Filtering the mixture.
  - D Purifying the mixture.
  - E Heating the purified mixture putting into a beaker.
  - (i) Name the laboratory apparatus used in steps shown below in the above activity.
    - (a) For the step B.
    - (b) For the step C.
  - (ii) Mention the specific observation obtained at the end of the step E.
  - (iii) What is the separating technique based for the activity in the step E?
  - (iv) The relative molecular mass of the solute separated in the step E is 342 g.
    - (a) What is meant by the expression the relative molecular mass of the solute separated is 342 g?
    - (b) Calculate the number of moles present in 176 g of the solute separated.
- (C) In Sri Lanka, salt extraction is taken place is salterns.
  - (i) Mention the chemical name of salt.
  - (ii) Mention 2 environmental factors that make the salt extraction efficient.
  - (iii) Name the chemical compounds precipitated in the tanks mentioned below in the salt extraction.
    - (a) In large shallow tanks.
    - (b) In medium tanks.
- (07) (A) A, B, C and D diagrams below show how wave patterns relevant for four sounds are observed through the cathode ray oscilloscope.
  - (i) (a) Mention the letters for the two waves that represent two sounds emitted by the same instrument.
    - (b) What is the characteristic of sound that helps to identify the two sounds separately?
  - (ii) (a) Mention the characteristic of sound that differs the two sounds relevant for the two wave patterns A and C.
    - (b) On what feature of the wave does the above characteristic of sound depend?
  - (iii) What is the letter that represents the wave pattern relevant for a noise?
  - (iv) The time taken to form the wave part B is 0.003 s
    - (a) If so what is the period of the wave B?
    - (b) What is the wavelength of this wave, if it is travelling in air with the velocity of 340 m s<sup>-1</sup>?
    - (c) When the temperature of air is lower than the temperature at which the wave travelled initially, will its velocity be high or less?

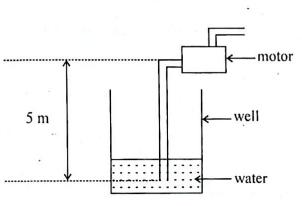


- (B) The diagram below shows how parallel light rays are manipulated by the optical instruments X and Y.
  - (i) (a) What are the optical instruments X and Y?
    - (b) Name the phenomena that light is subjected by X and Y instruments respectively.
  - (ii) The setup shown below is prepared by using the instrument Y.





- (a) At which point out of A, B, C can you expect the image of the candle flame to form?
- (b) Mention two characteristics of the image formed.
- (iii) Write 2 uses of the instrument X.
- (08) (A) A slice of bread was placed in a glass vessel after sprinkling some water on it and the lid of the vessel was kept closed. It was observed after two days. Then it was able to see a species of organisms with a network of fibres there. When the slice of bread is taken out and kept away, it was observed that a house fly was lying there.
  - (i) (a) What is the type of carbohydrate present in starch?
    - (b) What is the laboratory reagent used to identify it?
  - (ii) (a) What is the group of organisms which was seen as a network of fibre?
    - (b) Write two inherited characteristics of this group of organisms.
    - (c) What is the reproductive structure of this group of organisms?
  - (ii) (a) What is the group of invertebrate that the housefly belongs?
    - (b) Mention 2 characteristics that can be seen only in this group.
    - (c) When the diversity is considered, what is the speciality of the invertebrate group that the housefly belongs?
  - (B) The voltage of domestic supply of electricity is 230V. A motor connected to the domestic supply draws 2kg of water in 1 second and is removed though the exhaust pipe. The end of the pipe that draws water upwards in located 5 m lower than the place where the motor is fixed. The resistance of the circuit present in the motor is 46Ω. (acceleration due to gravity is 1.0 ms<sup>-2</sup>)



- (i) Calculate the current flowing through the electric circuit in the motor when it is operated.
- (ii) Mention the two ways of wastage of energy when the motor is operating.
- (iii) What is the weight of water removed in 1 second by the motor?
- (iv) Calculate the amount of work done in 1 second when the motor is operating.
- (09) (A) The table below shows electronic configurations of 5 elements. The symbols used for representing elements are not true symbols. Use only these symbols to answer the questions.

element	Α	D	Е	G	J	
electronic configuration	2,1	2,4	2,8,1	2,8,7	2,8,8	

- (i) Out of the above elements.
  - (a) Mention the two elements that belong to the same group.
  - (b) Name the elements that belong to the third period.
  - (c) What is the element that represents the noble gas?
- (ii) A chemical compound is formed by joining E and G.
  - (a) Write the formula of it.
  - (b) Mention the type of bond present in it.
  - (e) Write a physical property of it.
- (iii) The products of the reaction of the metal E and water are EOH and  $H_{1}$ . Show this reaction in a balanced chemical equation,
- (B) The table below shows an object which is kept in equilibrium under three inclined forces. The magnitudes of 3 forces are x, y and z. The mass of the object which is in equilibrium is 0.5 kg.
  - y z

object

- (i) (a) What is the magnitude of the resultant force of the x and z forces?
  - (b) What is the direction of it?
- (ii) What is the magnitude of all the three forces x, y and z?
- (iii) (a) Which force should be removed to move the object to the opposite direction of x?
  - (b) Then the object is accelerated by 2 m s<sup>2</sup>. Calculate the resultant force created by the remaining 2 forces on the object.
- (iv) Mention an example for an object which is in equilibrium under 3 parallel forces.