Mid Year Examination - 2015

Science

Grade 09 විදහට Time: 02 Hours

	PART - I								
•	Ans	Answer all the questions.							
01	Adi	lisease causing fungi is,							
	(1)	Tuberculosis	(2)	Measles	(3)	Syphilis	(4) Aluham		
02	Cor	nsider the stateme	nts g	iven below.					
	A	Milk which bottl	led a	fter sterilisation i	s kno	wn as Kalkiri.			
	В	When Producing	g Kal	lkiri it is heated a	t 134 '	°C degrees.			
	C	Pasteurized milk	to b	e stored in a refri	gerat	or.			
	D	Kalkiri is rich wi	th n	utritional value th	nan pa	asteurised milk.			
	Cor	rect statement/s f	rom	the above is / are	,				
	(1)	A	(2)	A, B	(3)	A, B, C	(4) A,B,C,D		
03	Equ	ipment used to m	easu	re electric curren	ıt is,				
	(1)	Volt meter	(2)	Ohm meter	(3)	Ammeter	(4) Mili volt meter		
04	Pers	sn who presented geo - centric model related to the motion of planets and sun is,							
	(1)	Aristoral		TO RIVE	(2)	Pythagorous			
	(3)	Nicolaus Coperr	nicus	100	(4)	Thales			
05	Star	pattern with the b	origh	ntest star can be se	een in	night sky is,			
	(1)	Pleiades	(2)	Canis major	(3)	Ursa minor	(4) Southern Cross		
06	The	The figure shows motion of a motor car starts from city A and travels to city C across city							
	B.A	B. Answer with the displacement and the distance from A to C is,							
	(1)	. 10m					10m		
	(2)	2) 10m towards East, 14m							
	(3)	3) 14m towards East, 10m							
	(4)	8m towards East, 16m 8m							
07	Star	tandard symbol of measuring displacement is,							
	(1)	ms ⁻¹	(2)	Kmh ⁻¹	(3)	ms ⁻²	$(4)^{\mathrm{B}}\mathrm{ms}^2$		
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 e	nergy is,					
	(1)	wind	(2)	bio mass	(3)	geo thermal	(4) crude oil		

10	Sta	ndard symbol of e	element 'tin' is,								
	(1)	Tn	(2) Pb	(3)	Ti	(4)	Sn				
11	Coı	Compound, represented by the chemical formula H ₂ O ₂ is,									
	(1)	Water		(2)	Methene						
	(3)	Vinegar		(4)	Hydrogen Perox	ide					
12	Ele	ment which does	not react with acids is	s,							
	(1)	Magnesium	(2) Iron	(3)	Carbon	(4)	Alluminium				
13	Select the false statement about Acids and bases,										
	(1)	1) Weak acids contain in lemon, orange etc.,									
	(2)	Strong acid secretes in stomach.									
	(3)	3) Acids changes the colour of blue litmus into red.									
	(4)	Base is formed in	n curd.								
14	All	oy, produced by n	nixing metals Coppe	r, Tin a	and Lead is,						
	(1)	Brass	(2) Bronze	(3)	Puter	(4)	Duralumin				
15	Rea	agent which used	to identify Carbohyd	rates i	s,						
	(1)) Iodine solution) Benedict solution						
	(3)	Sudan III solutio	on	(4)	Biuret solution						
16	\square	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	Sel	Select the material does not include in a dry cell,									
	(1)	(1) Carbon			Manganese Dio	xide					
	(3)	(3) Ammonium Chloride (4) Sulphuric acid									
18	Nat	ural Rubber is a p	olymer. It is formed l	by,							
	(1)	Amino acids	(2) Chloroprene	(3)	Isoprene	(4)	Glucose				
19	A fa	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)	(3) thickness of the wire used for the coil. (4) strength of magnetic field.									
20	An	Anano meter is,									
	(1)	0.000000001m	(2) 0.000001m	(3)	0.001m	(4)	0.01m				
							$(2 \times 20 = 40)$				
			PAR	T - II							
•	An	swer 05 question	s only.								
01	A11	the Matters on e	earth formed by ele	ments	. Compounds are	for	med by combining				

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

H ₂ O	Zn	CO(NH ₂) ₂ (Urea)		
K	Carbon	Iron		
HC1	Gold	NaCl		

	Ans	Answer the following questions using the above table.								
	(1)	Но	w many elements ar	e in the ta	able give	n by sym	bols or na	ame?		(01m.)
	(2)	Но	w many compounds	are there	e?					(01m.)
	(3)	Wr	ite the standard sym	bol of iro	n.					(01m.)
	(4)	Wr	ite down the chemic	al name	of NaCl.					(01m.)
	(5)	Wł	nat are the elements	of Urea?						(02m.)
	(6)							following		
		(a)	Heating		(b) Coo	oling			(02m.)
	(7) Mention a metalic element and a non-metalic element from the elem given in the table. (02						elements (02m.)			
	(8)	Wh	nat is the gas formed	when rea	cts Magr	nesium w	ith dilute	hydroch	loric acid	d?(01m.)
	(9)	Wł	no is the scientist wh	o present	ted law o	fconserv	ation of 1	mass?		(01m.)
02	A	Na	me the instrument u	sed for fo	ollowing	tests doir	ng in labo	ratory.		
		(1)	Preparing a soluti		_		_	J		
		(2)	Measuring a smal	ll volume	of liquic	l more ac	curately.			
	(3) Measuring all 3 quantities current, potential difference and resistance.									
		(4)	Collecting a liqui	d to a def	inite plac	ee by sma	ıll amour	its.	$(\frac{1}{2} \times 4)$	= 02)
	B Following is a procedure takes place in a chemical industry uses micro - organisms.							anisms.		
	Sweet toddy Ethyl Alcohol Aceto bactor bacteria (b)							b)		
	(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							(01m.)	
		(4) What is the acid produced by Lacto bacillus when coagulating milk? (01m.							(01m.)	
		(5) Mention an antibiotic used to cure diseases infected by bacteria. (01m.)						(01 m.)		
	(6) Name the pathogens caused for following diseases.									
			(a) Malaria		(b) Amo	oebic dys	sentery		(01 m.)
		(7)	Name two micros	•		· ·		_	•	(01m.)
		(8) What is the maximum magnification of a light micro scape? (01)							(01m.)	
	(9) Write down basic steps for of scientific method. (01)						(01m.)			
Following table shows the variation of velocity of an object starts from stationary with time.						nary state				
			Time (s)	0	1	2	3	4		
			Velocity (ms ⁻¹)	0	3	6	9	12		

(02m.)

(1) Calculate the acceleration of object.

(2)	Express 36kmh ⁻¹ in meters per seconds (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?	(01 m.)					
(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 crisis.	the energy (02m.)					
Nex	xt era of man who is doing the development of technology is Nano era.						
(1)	Who is considered as the father of nano technology?	(01 m.)					
(2)	Mention a natural nano system.	(01 m.)					
(3)	Write down a special feature can be seen in products mentioned below p	roduced 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	11 o y ?					
	(01m.)						
(6)	Name the constituent elements contain in following alloys.						
	(a) Brass (b) Bronze (c) Steel (d) Nichrom	e (04m.)					
Ele	ctricity 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 o	f following					
	solutions.						
	(a) Soda (b) Alcohol Solution (c) Brass	(03m.)					
(5)	(a) What is the solvent	a n d					
	(01m.)						
	(b) What is the solute of a sugar solution?	(01 m.)					
Oh	serving 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.	(01111.)					
(2)	(a) Pythagorous (b) Aristotal (c) Aristacus	s (03m.)					
(3)	Draw the star pattern included with main seven stars of Orion constellation						
(4)							
(4)	and Rigel.	(02m.)					