First Term Examination - 2015

Science

Grade 09 Demo

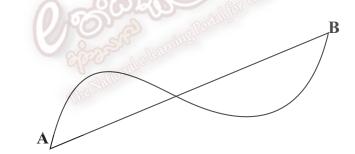
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		Par	rt - I	
•	Answera	ll questions.		
01	An instance that the scientific method can be used in day to day life is,			
	(1) Wh	en diagnosing a disease by a doct	or.	
	(2) who	en searching for evidence of a crit	minal by police.	
	(3) idea	ntifying a trouble of a motor car w	hen repairing.	
	(4) All	above.		
02	Ahypotl	hesis is,		
	(1) an i	dea presented for a long period of	ftime.	
	(2) a co	onclusion received by observation	ns.	
	(3) a pe	ermanent solution presented which	h is related to a problem.	
	(4) an u	ncertain solution presented for a	problem.	
03	The pair	of lens used in a compound micro	oscope to obtain a huge magnification is,	
	(1) con	vex lens	(2) concave lens	
	(3) con	vex and concave lenses	(4) convex lens and a mirror	
04	Not a lab	ooratory equ <mark>ipment</mark> made up of gl	lass is,	
	(1) igni	ition tube	(2) watch glass	
	(3) slid	e and cover slip	(4) combustion tube	
05	A multir	meter is used when testing an elec	trical circuit to,	
	(1) mea	asure current in various range	(2) measure potential difference	
	(3) mea	asure resistance	(4) all above	
06	An instr	ument more suitable to measure	a very little volume of liquid as 1/10 of milliliter	
	accurate	ely is,		
	(1) bull	b pipette	(2) Burette	
	(3) mea	asuring cylinder	(4) calibrated beaker	
07	A diseas	e caused by a bacteria is,		
	(1) hyd	lrophobia	(2) malaria	
	(3) tube	erculosis	(4) aluham	
08		A scientist who did not contribute to carry forward the idea presented by Nicolaus		
	•	cus on sun centered theory is,		
		ho Brahe	(2) Johannes Kepler	
	(3) Gal	ileo Galilei	(4) Clodius Tolami	

09	The star Sirius is in,			
	(1) Taurus constellation	(2) Orion constellation		
	(3) Southern cross constellation	(4) Canis major con	stellation	
10	A place where a star is born is called as,			
	(1) nebula (2) red giant	(3) galaxy	(4) protostar	
11	The star closest to the earth except sun and	the brightest star are,		
	(1) Sirius, Proxima, centauri	(2) Alpha Centauri,	Sirius	
	(3) Proxima, Centauri, Sirius	(4) Canopus, Polari	S	
12	The head of Orion constellation is directed	l to the,		
	(1) East direction	(2) North direction		
	(3) South direction	(4) West direction		
13	The group of micro - organisms used for co	onverting alcohol into	acitic acid is,	
	(1) fungus	(2) bacteria		
	(3) Virus	(4) mono-cellular	organisms	
14	Not a vector quantity is,			
	(1) velocity (2) displacement	(3) force	(4) distance	
15	The instrument that not used in a place of	maintaining motor ve	hicle from the following	
	is,			
	(1) common pliers	(2) wheel brace		
	(3) shifter key	(4) pile driver		
16	Not a primary rasource of energy is,			
		(3) electricity	(4) wind	
17	Type of matches which sea-saw is,			
	.,	(3) pulley	(4) wheel and axle	
18	The gas formed by decomposition of organ	nic matter is,		
	(1) liquid petroleum gas	(2) bio gas		
	(3) Hydro gas	(4) diesel gas		
19	Targeted cells of hydrophobia disease are,			
	(1) epithelliv	(2) red blood cells		
	(3) neuro cells of brain	(4) white blood cells	S	
20	The philosopher who introduced the scien	tific method is,		
	(1) Sir Isacc Newton	(2)	Francico Redi	
	(3) Alexander fleming	(4) Francis Bacon	$(02 \times 20 = 40 \text{ marks})$	
			(02 11 20 10 marks)	

Part II

- Answer 4 questions. First question is compulsory.
- O1 Amantha's father gave him a polythene bag with several bundles of leaves not wet to give it to his mother at home. After he came home Amantha saw that there are droplets of liquid inside that bag. And he decided that those droplets of liquid to be water.
 - (1) What is the observation of Amantha in this incident? (02 m.)
 - (2) What is the problem arouse because of this observation? (02 m.)
 - (3) What would be the procedure used by Amantha to solve this problem? (01 m.)
 - (4) If the hypothesis taken by Amantha to solve this problem is water removes from plant leaves as vapour.
 - (a) Draw a diagram of the main set of instruments prepared to test the hypothesis and name its parts. (03 m.)
 - (b) Draw a diagram of set of instruments used for control experiment and name its parts. (03 m.)
 - (c) Mention your conclusion, if the hypothesis confirmed scientifically when it was tested. (01 m.)
 - (5) (a) What is the chemical substance to be used to confirm that the above droplets of liquid are water? (02 m.)
 - (b) What is the observation you receive at the above experiment? (01 m.)



A and B are two points marked on a aground. Distance between A and B is 80 m. Direct distance between A and B is 40 m.

(1) According to the diagram given here,

02

- (a) What is the distance between A and B? (01 m.)
- (b) What is the displacement between A and B? (01 m.)
- (2) (a) Define what the speed is. (02 m.)
 - (b) Define what the velocity is.. (02 m.)
- (3) It takes 16 seconds to student to go from A to B.
 - (a) Find the speed of the student. (03 m.)
 - (b) Find the velocity of the student. (03 m.)
- (4) Write down the standard unit of acceleration. (02 m.)
- (5) Write down the word used for negative acceleration. (01 m.)

03	the curiosity of people attracted to this.					
	(1)	Who was the astronomer strongly advocate helio - centric model in 14th century?				
			(02 m.)			
	(2)	Who was the first person, who observed the four largest moons of the pl with a telescope?	anet Jupiter (02 m.)			
	(3)	What is known as the apparent motion of sun?	(02 m.)			
	(4)	Describe the ecliptic.	(02 m.)			
	(5)	Write 12 constellations of the zodiac in order.	(04 m.)			
	(6)	Write the two galaxies that can be seen with the nacked eye.	(02 m.)			
	(7)	What is the galaxy that the earth belongs to?	(01 m.)			
04	Org	Organisms cannot be seen with the nacked eye are known as micro - organisms.				
	(1)) Name 3 groups of micro organisms.				
	(2)	Name 2 fibre industries done by using micro - organisms.	(02 m.)			
	(3)	Mention 2 types of dairy products produced by using micro - organisms.	(02 m.)			
	(4)	Mention 2 antibiotic vaccines produced by micro organisms.	(02 m.)			
	(5)	Write down two harms can be happened for men because of micro organisms. (02 m.)				
	(6)	Mention a group of organisms caused for the diseases mentioned below.				
		(a) Malaria (b) Aluham				
		(c) Cold (d) Pneumonia	(04 m.)			
05	Microscope is used for observing micro objects, cannot be seen with necked eye.					
	(1)	One of two light microscopes used in school laboratory is compound re What is the other type of microscope?	microscope. (01 m.)			
	(2)	Name the lenses closer to eye and distant to eye in compound respectively.	microscope (02 m.)			
	(3)	Write down 3 matters to be concerned when using a microscope.	(03 m.)			
	(4)	What is the maximum magnification of compound light microscope?	(02 m.)			
	(5)	Name two other places that the compound microscope is used exceptaboratory.	ot in school (02 m.)			
	(6)	Name two mechanical parts of compound microscope.	(02 m.)			
	(7)	What is the magnification of a microscope with 15 x eye piece, 45 x objective piece, (02 m.)				
	(8)	What is the name of the microscope, used to observe micro objects like vi	rus?			

(01 m.)