

Royal College - Colombo 07

Grade 8 – First Term Test – April 2019

Science-I

Name	:				Grade :		Index nu	ımber:	
• Sel	ect the	questions. correct or most		e answe	r for each of the	e following qu	estions f	rom (1) to (20)	
(1)	(1) The unicellular fungi is,								
	(1)	Yeast	(2)	Mucor	(3)	Amoeba	(4)	Paramecium	
(2)	The b	eneficial effec	t of mic	ro-orga	nisms for hun	nan is,			
	(1) Changing the nature of non-living surface due to the growth of micro-organism on it.								
	(2) Decomposition of dead animal and plant materials.								
	(3) The food becoming unsuitable for consumption								
(4)	Sprea	ading diseases among plants and animals.							
(3)	The micro-organism group which can be seen in a sample of coconut water, which is								
	exposed to atmosphere and observed under microscope is,								
	(1)	Clamydomor	nas		(2)	Virus			
	(3)	Yeast			(4)	Parameciun	n		
(4) The most suitable temperature range for the growth of micro-organisms is,							sms is,		
	(1)	20 °c – 25 °c			(2)	25 °c - 30 °	С		
	(3)	0 °c – 50 °c			(4)	more than	50 °c		
(5)	What	occurs during	decayi	ng of or	ganic matter?				
	(1)	Using micro	-organ	isms to	control pests.				

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(2)

(3)

(4)



Causing damages to economy by growing on non-living surfaces.

Changing nature of food unsuitable for consumption by micro-organisms.

Decomposition of dead animal and plant materials by micro-organisms.



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(6)	The organism which can be subjected to rabies due to infection of micro-organisms is,									
	(1)	Parrot	(2)	Squirrel	(3)	Lizard	(4)	Rat snake		
(7)	Theo	rganism which	n socro	at noisan by ch	midocy	tes to paralyze	the nr	eav ic		
(7)				-	-		-	-		
	(1)	Spider	(2)	Caterpillar	(3)	Snake	(4)	Hydra		
(8)	The g	roup of organi	sms wh	nich has an exc	skeleto	on over the boo	ly is,			
	(1)	Mollusca	(2)	Arthropoda	(3)	Reptilia	(4)	Mammalia		
(9)	Select the answer which included the group of organisms having streamlined body									
	shape.									
	(1)	Piscase, Aves	5		(2)	Aves, Reptilia	a			
	(3)	Reptilia, Pisc	ase		(4)	Arthropoda,	Anneli	da		
(10)	The g	roup of organi	sms wł	nich show meta	amorpł	nosis is,				
	(1)	Mammalia	(2)	Aves	(3)	Piscase	(4)	Amphibia		
(11)	Select the answer which includes mammals only,									
	(1)	Dolphin, bea	r, duck	billed platypu:	s, blue v	whale				
(2)	Penguin, duck billed platypus, kiwi, loris									
	(3) Bear, dolphin, penguin, ulama									
	(4)	Penguin, ula	ma, gor	illa, blue whal	e.					
(12)	Not a function performed by underground stems,									
	(1)	Storage of fo	od		(2)	Perinnation				
	(3)	Vegetative p	ropagat	ion	(4)	Photosynthe	sis			
(13)	Not an example for propagative roots,									
	(1)	Curry leaves	(2)	Guava	(3)	Uguressa	(4)	Beli		
(14)	The leaf with a tendril at the tip of it is,									
	(1)	Во			(2)	Koboleela				
	(3)	Niyangala			(4)	Temple tree				



- (15) Standard unit of measuring density is,
 - (1) Kilogrammes per cubic meter
 - (2) Grammes per cubic centimeter
 - (3) Kilogrammes per cubic centimeter meter
 - (4) Grammes per cubic meter
- (16) Plants with underground stems are,
 - (1) Ginger, corn, leeks.
- (2) Corn, turmeric, sweet potato
- (3) Sweet potato, turmeric, potato
- (4) Potato, turmeric, ginger
- (17) Elements contained in water is,
 - (1) Carbon, Oxygen

- (2) Oxygen, Nitrogen
- (3) Hydrogen, Oxygen
- (4) Nitrogen, Hydrogen
- (18) Particulate nature of matter was first put forward by,
 - (1) Democritus

(2) Aristotle

(3) Galileo Galilei

- (4) Issac Newton
- (19) A physical property which cannot be used to determine the purity of a substance is,
 - (1) Density

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(2) Expansion

(3) Melting point

- (4) Boiling point
- (20) Select the correct statement.
 - (1) Boiling point decrease when the pressure increase.
 - (2) There in no relationship between pressure and boiling point.
 - (3) Boiling point of water at sea level is greater than 100 °c.
 - (4) Boiling point of water is less than 100 °c at a mountain top.

 $Marks = 2 \times 20$

Total = 40 marks.





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Science – II ibHoù

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Name	:			Grade :	Index number:-	·			
• Qu	iestion	number 0	1 is compulsory. A	nswer 05 ques	tions including the first	question.			
(1)	A gro	up of stude	ent in grade 8, spra	yed few drops	of water on a slice of bre	ad and kept			
	it few	days for t	he growth of micr	o-organisms. Tl	nen they observed a par	t of it under			
	the co	mpound m	icroscope.						
	(i)	Name th	e group of micro	organisms tha	t they observed under	compound			
		microsco	pe.			(01 M)			
	(ii)	Define m	cro-organisms.			(01 M)			
	(iii)	Name the	person who obser	ved micro-orga	nisms for the first time.	(01 M)			
	(iv)	Describe	what food spoilage	is,		(01 M)			
	(v)	Name two factors which are suitable for the growth of micro-organis							
						(02 M)			
	(vi)	Name the	ood items containing foll	owing types					
		of nutrier	nts.						
		a) Li	oid containing food	_					
		b) Su	gar containing food	d –					
		c) Pr	otein containing fo	od –		(03 M)			
	(vii)	Write two methods of preventing the growth of micro-organisms on f							
						(02 M)			
	(viii)	Using mi	cro-organisms to	control pests	that cause damage to t	he crops is			
		termed as	5,			(01 M)			

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(02 M)

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Name two substances formed during the reaction between sugar, warm water

Name two groups of micro-organisms which causes diseases to humans. (02 M)



and yeast.

(ix)

(x)

(01 M)

- (2) You were engaged in a field trip to observe the diversity of leaves and the leaf arrangement patterns, of plants. Answer the following questions using the knowledge that you gained from the field trip.
 - (i) What is meant by 'leaf arrangement' of plants?
 - (ii) Write one advantage of different leaf arrangement patterns? (01 M)
 - (iii) Write the method of absorbing water and necessary gas in to the plant for 'photosynthesis'.
 - a) Water -

- b) Gas (02 M)
- (iv) Evaporation of water from the plant body is called as "transpiration".
 - a) Name the main organ through which transpiration occurs. (01 M)
 - b) Write one use of transpiration for the plant body. (01 M)
 - Write two adaptations that can be seen in 'xerophytic plants' to minimize transpiration with relevant examples.
 (02 M)
- (v) Write one example for a plant which store water in leaves. (01 M)
- (vi) Write two examples for plants which show vegetative propagation by plant leaves. (02 M)
- (3) Grouping animals considering their common characters is called as classification of organisms. Animals can be divided into two main groups as vertebrates and invertebrates. Name the most suitable vertebrate or invertebrate group for the features given below.
 - (i) The phylum which include highest number of organisms-
 - (ii) The phylum which include animals with radial symmetry-
 - (iii) The phylum with segmented worms-
 - (iv) The group which consist of organism who respirate through moist skin, mouth, lungs and gills –
 - (v) The group of organisms with a body having scales and eyes without eyelids-
 - (vi) The group having soft body which is covered by a moist body cover -
 - (vii) The group having a dry skin without glands –
 - (viii) The group which posses sweat glands, sebaceous glands and mammary glands-
 - (ix) The group of organisms with joined appendages –



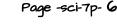
- (x) The group with a skin covered by feathers –
- (xi) Group which has external ears -

 (1×11)

- (4) A group of grade 8 students set an apparatus to check the properties of metals and non-metals. Diagram of that apparatus is given below.
 - v. A B
 - (i) Which property of matter can be tested using the above apparatus? (01 M)
 - (ii) Write the observations separately when following substances are placed in between terminals A and B. (03 M)
 - a) Iron Nail -
 - b) Carbon rod
 - c) Sulpher
 - (iii) Mention the suitable physical property for the following descriptions.
 - a) The temperature at which solid turns in to a liquid –
 - b) The rough or smooth nature of the surface of a substance –
 - c) Ability to drawn into thin wires without breaking by applying a force –
 - d) Mass of a unit volume of particular substance -
 - e) Increasing the length by applying a force and becoming into original shape after the force –
 - f) Increasing the volume without increasing the mass when increase the temperature of matter –
 - g) Breaking into pieces when hammering $(1 \times 7 = 7M)$
- (5) Sounds that we hear in the environment can be classified as natural and artificial sounds. Sounds are produced by vibrating materials.
 - (i) What are sources of sound? (01 M)
 - (ii) What are the main types of sound sources that can be divided on the basis of the type of material that is vibrating to produce sound? Give one example for each category.

(03 M)

- (iii) a) What is the quantity that affects to the 'difference of sound'? (01 M)
 - b) Name the unit which used to measure that quantity? (01 M)
- (iv) Describe the difference between the musical tones and noise. (01 M)
- (v) What is meant by musical therapy? (01 M)





- (vi) Mention the limits of hearing of human ear? (01 M)
- (vii) Name an animal which can hear higher frequencies than humans. (01 M)
- (viii) Explain the relationship between the length of the metal plates of the xylophone and their frequencies when producing sound by vibrating them.

 (01 M)
- (6) Shoot system and root system can be named as the two main systems of a plant. There are special functions performed by each of the above parts.
 - (i) Name the main function performed by the stem as a part of the shoot system of a plant. (01 M)
 - (ii) Some stems are adapted to perform special functions. <u>Copy down</u> the following table in your answer script and fill in the blanks. (04 M)

	Function	Name of the stem	Example
1)	Generation of new plants.		
2)	Store food in areal stem	e e	
3)	Photosynthesis	* /	
4)	Act as a support to climb up		

- (iii) Anchoring the plant is one of the main functions of plant roots. Name the other main function of the plant roots. (01 M)
- (iv) What are adventitious roots? (01 M)
- (v) Name the special types of roots that can be seen in following plants. (04 M)
 - a) Orchid -
 - b) Banyan -
 - c) Carrot -
 - d) Pandanus



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