The City School Unified Midyear Examinations 2018-19



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SCIENCE					7.12.2							Decem	ber 2018
CLASS 8													2 hours
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❖ Write you	ır inde	x nı	ımber	r and b	oranci	h/ cam	nnus c	learly	in the	spa	ce pro	vided.	
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	SI	ECT	ION A	(50)			SEC	TION	B (50)	1			
Question #	-	1	2	3	4	5	6	7	8	9	10	11	
Max. Marks	3	30	10	10	07	07	06	06	06	06	06	*10.00	400
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Section	n A Objective	50 Marks
. 1 I	Multiple choice questions	
(Choose the correct answer for the given statements and encircle it.	<u>[_/30]</u>
i. \	/irus consist of DNA or RNA surrounded by a:	
,	A. cell wall	
E	3. protein coat	
(c. cell membrane	
). fungal cellulose	
ii. M	Aushroom is a type of:	
4	A. fungi	
E	3. algae	
(. virus	
ī). bacteria	
ii. 7	The manufacturing of medicines and sewage treatment is related to:	
-	A. ecology	
	3. micro biology	
(C. pathology	
). biotechnology	
v. F	Penicillin can be used to treat:	
4	A. bacterial diseases	
E	. fungal diseases	
C	. viral diseases	
0	D. Both A & B	
v. V	Which of the following is used for making yogurt:	

- A. bread mould
- B. lactobacillus bacteria
- C. penicillium
- D. yeast

vi.	Dysentery is caused by:
	A. fungi
	B. amoeba
	C. Virus
	D. Flies
vii.	White blood cells and antibodies are components of the:
	A. circulatory system
	B. excretory system
	C. nervous system
	D. immune system
⁄iii.	Bacteria, fungi and viruses are types of micro-organisms. Which one is the smallest?
	A. bacteria
	B. viruses
	C. fungi
	D. all are of the same size
ix.	Protein deficiency results in a disease called:
	A. kwashiorkor
	B. diabetes
	C. osteoporosis
	D. scurvy
x.	Most of the energy in our bodies is provided by:
	A. vitamins
	B. calcium
	C. iron
	D. carbohydrates

Αι.	nice, potatoes and cereals are main source of:
	A. fats
	B. proteins
	C. starch
	D. minerals
xii.	Fats are made up of :
	A. carbon, hydrogen and oxygen
	B. carbon, oxygen and nitrogen
	C. oxygen , nitrogen and hydrogen
	D. carbon and hydrogen only
xiii.	Too much salt can cause:
	A. high blood pressure
	B. flu and cough
	C. weight loss
	D. night blindness
xiv.	Involuntary muscular movement of the alimentary canal is called:
	A. churning
	B. grinding
	C. peristalsis
	D. contractions
XV.	Chemical substances which are used to speed up the reactions in the body:
	A. hormones
	B. enzymes
	C. vitamins
	D. platelets

xvi.	The first part of small intestines is called:
	A. rectum
	B. appendix
	C. duodenum
	D. ileum

xvii. Feathers are good insulators because they are:

- A. light
- B. waterproof
- C. have air pockets
- D. reflect heat

xviii. Another name for heat energy is:

- A. kinetic energy
- B. mechanical energy
- C. frictional energy
- D. thermal energy

xix. The fastest method of heat transfer is:

- A. convection
- B. radiation
- C. conduction
- D. reflection

xx. When one end of the metallic rod is heated, the particles:

- A. get closer
- B. get bigger
- C. vibrate and the vibration is passed on from one particle to the other.
- D. Particles move in all directions

xxi.	Which of the following is the cause of land and sea breeze:
------	---

- A. reflection
- B. radiation
- C. convection
- D. conduction

xxii. A solar panel has a black surface because it:

- A. absorbs radiation
- B. reflects more heat
- C. reflects radiation
- D. is a poor radiator

xxiii. Common appliances like refrigerators and air conditioners make use of:

- A. convection
- B. conduction
- C. radiation
- D. reflection

xxiv. Clear glass and diamond are the examples of:

- A. transparent materials
- B. translucent materials
- C. opaque materials
- **D.** conductors

xxv. The speed of light in vacuum is:

- **A.** 300,000,000 m/s
- **B.** 300 000 m/s
- C. 3000 000 m/s
- D. 30 000 m/s

xxvi.	Objects that emit their own light are:
	A. non-Luminous
	B. transparent
	C. luminous
	D. translucent
xxvii.	If an object reflects all colours of white light, it appears:
	A. green
	B. blue
	C. red
	D. white
xxviii.	Yellow is formed by mixing:
	A. red and green
	B. red and blue
	C. white and orange
	D. green and white
xxix.	The bending of light is called:
	A. reflection
	B. deflection
	C. radiation
	D. refraction
XXX.	An instrument which enables us to see the moons, planets and stars is called:
	A. microscope
	B. telescope
	C. periscope
	D kaleidoscope

Q.2	Fill in the bl	anks.		LO]		
i.	Α	cell does not have a nucleus.				
ii.	Due to misu	se of antibiotics, bacteria develop	against diseas	e.		
iii.	Number of o	hildhood diseases have dropped down due to the use of				
iv.	The removal	of undigested matter from the body is called				
v.	breaks down large starch molecules.					
vi.		ee of soluble proteins in food can be tested by using				
vii.	The SI unit o	f temperature is the				
viii.		mometer contain which is poisonou	s. if vou break	(
	the thermon	•	-, ,			
i.						
ix.	ii an object a	absorbs all colours of light, it appears	·			
x.		absorbs certain colours of light while tran	smitting othe	rs.		
Q.3	Cross match	ing:	[/1	0]		
	Read the te	rms given in Column A and match them with their correc	t interpretation	on		
_	in Column B	. Write your final answer in column C.				
	Column A	Column B	Answer			
1	. Lipase	a. the path along which light travels	1			
2	. Bile	b. organisms that carry germs in their bodies and pass				
		the germs on to someone when they bite or sting the person.	2			
3.	. Fungi	c. A point source of light forms a shadow of an object which is a dark region with a well defined outline	3			
4.	Lactobacillus	d. breaks down fats into simpler units of fatty acids	4			
5.	Vectors	e. separation of white light into its component colours when it passes through a glass prism	5			
6.	Change of state	f. produced by the liver and stored in the gall bladder	6			

g. convert milk sugar (lactose) into lactic acid

i. mushrooms; toadstools; yeasts and mould

j. heating without a change of temperature

h. bending of light when it travels from one medium

to another medium

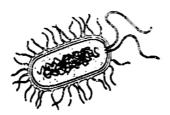
7. Ray

8. Umbra

9. Refraction

10. Dispersion

Q.4 Look at the diagram given below and answer the questions:



i .	Identify the micro-organism given above:	_ [_/1]
i .	Name two infectious diseases caused by the organism identified above:	
i.	Explain how Malaria is spread?	<u></u>
v.	Write down one way in which fungus can benefit us and one way in which i us.	t can harm [/2]
.5	Answer the following questions: How does baker's yeast helps to raise dough?	[_/1]
	Why are viruses not classified as living things?	[_/1]
i.	Write three ways in which micro-organism are useful?	<u>[_/3]</u>

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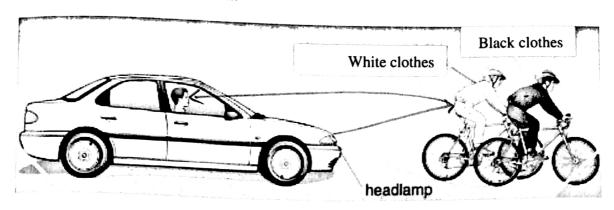
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	e below:		
Part of alimentary cana	Secretion/Enzyme	Food group on which enzyme acts	End Prod
Stomach		Long chains of protein molecules	
Duodenum			Fat droplets
Small intestine	Carbohydrases		
Answer the follow The deficiency of function in our bo	this nutrient results in	scurvy. Identify the n	outrient and s
The deficiency of function in our bo	this nutrient results in ody.		
The deficiency of function in our bo	this nutrient results in ody.		
The deficiency of function in our bo	this nutrient results in ody.	suffer from Goiter. Na	

State the ro	ole of these finger like projections.	L
,	is filled with cold water. Crystals of potassium permanganate	
	om of beaker. The water around the crystals becomes colou	red. W
the beaker	is heated, the coloured water moves.	
	potassium permanganate	
	Stand Bunsen burner	
On Fig. drav		
_	Bunsen burner	beake L L

•	Which mode of hea	et transfer cannot takes place in vacuum? Explain	. [_/2]
		ro inetalled with black base?	[/2]
).9.a	Why solar panels al	re installed with black base?	
	Why is it more effe	ctive for heaters to be placed at bottom and air o	conditioners to be
		d windows help to keep the rooms warm in w	
	summer?		
.10		am to complete the path of the ray and Label	the incident ray,
	refracted ray, eme	rgent ray and normal in the diagram.	[/6]
		Air	
		Glass	
		Gigas	

Q.11.a Two cyclists are riding along a dark road at night. One is wearing black clothes and the other is wearing white colored clothes. A car is driving behind the two cyclists and its light shines on them.



What happens to light when it reaches the white coloured clothes?	[_ / 1]
What happens to light when it reaches the black coloured clothes?	
Draw a ray of light on the above diagram to show how the light from the h	eadlamp
reaches the driver, so that he can see the cyclist in white coloured clothes.	/2]
What colors are formed when following colors of light combine?	<u>[_/2]</u>
Red + Green =	

Blue + green = _____

ii.