De Mazenod College, Kandana Science Grade -9

1^M Term Test - 2024

Duration - 2 Hours

- Answer all the questions
- Under line the most suitable answer.
- 1. SI units of force is.
 - 1) m
- 2) Nm
- 3) N
- 4) Kg
- 2. Symbols of elements of sodium and Potassium are respectively,
 - 1) So and P 2) K and So
- 3) K and Na 4) Na and K

- 3. Light enters to the eye,
 - 1) Through blind spot
- 3) through iris
- 2) Through pupil
- 4) through retina
- 4. The technology used to remove environmental pollutants using microorganisms is known as,
 - 1) Bio-remediation
- 3) Nitrogen fixation
- 2) Bioleaching
- 4) industrial microbiology
- 5. Helps to change the curvature of the lens, when necessary is,
 - 1) Optic muscle
- 2) Iris
- 3) Ciliary muscles
- 4) forvea.
- 6. Which part of the ear helps to maintain the balance of the body?
 - 1) Cochlea
- 2) Semicircular canals
- 3) Ossicles
- 4) auditory nerve

- 7. A disease caused by protozoa is,
 - 1) Pityriasis
- 2) tuberculosis
- 3) leishmaniasis
- 4) dengue

- 8. Correct statement regarding the convex lense is.
 - 1) Focal length decreases when increasing the curvature
 - 2) Focal length increases when increasing the curvature
 - 3) No any relationship between the focal length and the curvature
 - 4) Any image does not form.
- 9. Stereoscopic vision is,
 - 1) Ability to identify the colour of an object
 - 2) Ability to determine the depth or height of the object
 - 3) Ability to determine the speed of the object
 - 4) Ability to determine the vision range
- 10. Glucoma is the result of,
 - 1) High blood pressure
- 3) damage to the optic nerve

2) Diabetes

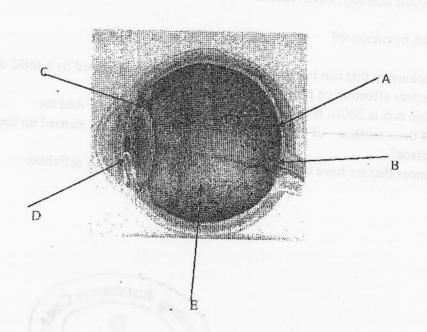
4) expose to hot sunlight



	art of the ear which					=,
	Cochlea, auditor					
2)	* *		nerve, sameur	mer caner		
4)	Cochiea, ossicles Semi-circular ca		rva Bustachian	tube		
4)	Semi-chouldrea	nai, augmory no	ivo, coomoniai.	. 50 0%		
12. Only	elements are,					
	Na, Mg, H ₂ O	2) CuSo ₄ , H ₂	O, HCl	3) H, O Cl	4) Ca, Al, H ₂ O	
13. Only	homogeneous mix	tures present in	•			
1)	Salt solution, fru	iit salad	3) Salt solution	on , sugar solut	ion was to amome	
2)) Sea water, mixt	ure of motor	4) muddy wa	ter, porridge		
	oressure was 50 Pr ed was,	a, when a perp	endicular force	was applied r	on a surface <mark>area</mark>	of 5m ² . The force
A *** ********************************) 250 N	2) 10 N	3) 1/10N	4) 5N		2) Theor
15 Imag	e of an object shou	uld focus to set	a clear vislon is			
) Eye lens	2) iris	30 blind spot			
	od of separating va					
) Steam distillation		3) Crystalliza			
2) Fractional distill	lation	4) Evaporation	on		
	are some statemen a,Pinna (ear lobe) i b.Transmit auditor	is a cartilaginou	s organ.	the structure	and the function o	f the ear
	c.Ossicles contribu			ody.		
	ect statements are,			ajzolgovad		
1) Only a and b	2) only a and	i c	3) only b and	d c 4) all a,	b and c
18. Not a	a homo- atomic mo	olecule,				
1) H ₂ O	2) H ₂	3) O ₂		4) CO ₂	
19. A co	mpound which is r	not formed by the	ne set of elemer	ts C, H and O	is,	
) Glucose	2) Acetic ac	id 3) Me	ethane	4) sucrose	
1) 1/30 N	of 90 N was app 2) 300N	lied on an area (of 3m². What i 4) 270 Pa	s the pressure exe	rted on the surface?
allo)	borosalvi av odsvak				ertrantimoto et v	
						(2x20=40)
12						

Answer 5 questions only

	nower 5 questions only	
01. Micro	porganisms are favourable to humans and other living beings, but some are harr	nful
(23 <mark>1,</mark> 30	How can we separate organisms as microorganisms?	(2marka)
lii.	Mention a beneficial effect and an adverse effect of micro- organisms separat Mention 04 main categories of micro – organisms	(Amarka)
iv		egar separately.
V.	What is bio-remediation	(2marks) (2marks)
02. Micro	- organisms are used in different fields by humans due to their beneficial effect	ed A
i.	Mention 3 fields that use the beneficial effects of micro- organisms	(3marks)
(a-ii.aa	What do you mean by antibiotics?	(2marks)
(a iii.aa	What is industrial microbiology?	(2marks)
v.	What happens in bio remediation?	(2marks)
	Mention three pathogens and name their diseases caused by them.	(3marks)
03. Visior	hary sense and the auditory sense are given by the eye and the ear of our body.	f id
(2)lattin	Identify the parts given in English letters in the figure below.	(5marks)



a) What is the defect of vision that patient suffering from? b) Mention a reason for your answer in (a) c) Draw the ray diagram of the eye with the defect of vision mentioned above d) How can we correct the above eye defect? iii. What is binocular vision? iv. Which part of ear contributes to maintain the balance of body? Wention the range of audibility of a hymner area.	ii.	A patient told to a doctor that the letters of the books are not visible clearly	
iii. What is binocular vision? iv. Which part of ear contributes to maintain the balance of body? V. Mention the range of audibility of a human and the balance of body? (1mark)		a) What is the defect of vision that patient suffering from?b) Mention a reason for your answer in (a)c) Draw the ray diagram of the eye with the defect of vision, mentioned above.	(1mark) (1mark) (1mark)
iv. Which part of ear contributes to maintain the balance of body? V. Mention the range of audibility of a human area. (Imark)	iii.	What is binocular vision?	(1mark)
V. Mention the range of audibility of a human and	iv.		
(Imark)	٧,	Mention the range of audibility of a human are	
		tange of authority of a human ear	(Imark)

ha i Name 2 pure substances	(2 marks)
i. Name 2 pure substances ii. What do you mean by compounds?	(1 marks)
iii. Name 2 characteristics of monoatomic mixture	(2 marks)
iv. Name a monoatomic molecule and a hetro –atomic molecule and draw their su v. Find the answers by using the information regarding the element	ructures (4 marks)
a) Mass number	
b) Number of protons c) Number of neutrons	(3 marks)
05. Force is a pull or a push. This energy is used by humans in their day to day life.	
i. Mention 3 changes occur when applying a force on an abject.	(3 marks)
to any distance of application?	(1 marks)
iii. Graphically represent the forces acting on a wooden block given below a) Force 5 N to east	gad 1867 (6 marks) Leodestvi
b) Force 8 N to north and have said yell newly said same a violitable and but	is. Visionary sense a
iv. Force is a vector quantity. Give reasons.	(2 marks)
06.i) What do you mean by pressure?	(2 marks)
ii) Mention the relationship that can be used to calculate the pressure exerted by a sol	lid object. (2 marks)
iii) Mention two factors affecting on pressure?	(2 marks)
iv) Weight of a cubic box is 200N. It is kept on a horizontal plane surface. And the	
contact area of the surface of the box 1s 2m ² . What is the pressure exerted or	n the
horizontal surface?	(5 marks)
v) Mention 3 instances that we have to increase pressure in our day-to-day activities	(3 marks)

(dragely)

