PONDA SCHOOLS' ASSOCIATION

Sub: SCIENCE

Marks: 65

l. : X

JOINT FIRST TERMINAL EXAMINATION OCTOBER, 2018

STD.: X

Sub : Science

Q.1A] (i)	Select the correct alternative from those given below each statement and	
Q. 1A] (1)	write the completed statement :	(1)
a)	Magnesium ribbon burns to produce magnesium oxide is an example of reaction.	
	(decomposition, double displacement, combination , redox)	
b)	The growth of roots toward the soil is an example of	
	(chemotropism, geotropism, hydrotropism, phototropism)	
(ii) a) b)	Name the following: The reaction in which one substance gets oxidized and the other gets reduced. The plant hormone that promotes cell division.	(1)
(iii) a) b)	We observe things getting corroded in our everyday life. How can corrosion be prevented? (1 point) Chips packets are flushed with nitrogen gas. Why?	(2)
B] (i) a) b)	In animals, control and co-ordination are provided by neurons and muscular tissues. Give one point of difference between gustatory and olfactory receptors. What is a synapse?	(2
	The forebrain is the main thinking part of the brain. Give a point of difference between voluntary and involuntary muscles. Name the nervous system that facilitates the communication between central nervous system and other parts of the body.	(2
a) l	Attempt the following: Plants show tropism in response to other stimulus. Give one example of chemotropism. Why is the use of iodised salt advisable?	(2
a) H b) V	dormones produced in one part of an organism move to another part to achieve the lesired effect. Idow does our body respond when adrenaline is secreted in the blood? Why are some patients of diabetis advised to take insulin injections? What is the function of growth hormone?	(

(2]	Radha is suffering from swollen neck.	
	a	Name the hormone that is deficient in Radha .	
	b) Which element is required for the formation of this hormone?	
	C	 Name the hormone associated with puberty in males and write any one change seen in boys during puberty. 	
2.2	A] (i)	Observe the correlation in the first pair and complete the second pair:	(1)
	8	Magnesium oxide : basic oxide :: zinc oxide :	
	b	Clove : olfactory indicator :: Hibiscus petals :	
(II)	State one use of washing soda.	(1)
m)	Name the following	(1)
	8)	An acid used in preparing baking powder.	
	b)	Chemical name of bleaching powder.	
iv)		Gold and silver metals are more preferred over other metals for making jewellery. Give reason.	(1)
v)		Sodium is always preserved in kerosene oil. Why?	(1)
3]	(1)	Chemical properties are equally important along with physical properties of the elements.	(2)
	a)	Name the allotroph of carbon used in making electrodes.	
	b)	Name the metals used for making solder.	
	C)	Ionic compounds are solids and some what hard. Why?	
i)	8)	Write one point of difference between the reaction of sodium with water and reaction	(4)
'/	0/	of magnesium with water.	(1)
	b)	How do we extract metals low in activity series from their ores?	(1)
		The earth's crust is a major source of metals.	(4)
1		Ores of many metals are oxides. Why?	
	a)		
	b)	What is gangue? State one point of difference between calcination and roasting.	
	c)	Give an application of thermit reaction.	
	d)	Give an application of triefmit rooses	

3A		M.	atch the iter	ns in	column 'A' with the correct items in column 'B' and write the	(1)
			'A'		'B'	(0)
		a)	Xylem	1)	Removal of metabolic waste	
		b)	Phloem	ii)	Conductor of water and minerals	
				iii)	Preparation of food	
				iv)	Transport of prepared food	
	ii)	W	rite any one	functio	on of blood	(1)
	iii)	W	hat is the fur	ction	of guard cells?	(1)
	iv)	A	person lost	his life	due to heavy blood loss in an accident.	(1)
	a)	N	ame the bloc	d ves	sel that resulted in heavy loss of blood.	
	b)	N	ame the bloc	d cell	that helps in clotting of blood.	
B]		W	e are able t	o see	this colourful world because of our eyes.	(2)
	a)	N	ame the type	e of le	ns present in the human eye.	
	b)	W	hat type of i	mage	is formed by the human eye lens?	
	c)	V	/hat is myop	ia?		
C]		E	veryone ap	precia	ates the spectacular colours in a rainbow.	(3)
	a)		ame the col- f spectrum.	our tha	at denotes the most and the colour that deviates the least in a band	
	b)		Vhat is dispe			
	c)		Where is the treat this d		formed in a hypermetropic eye and name the corrective lens used of vision.	
D		1	he earth's	atmo	sphere is a heterogeneous mixture of many particles.	(4)
	a)	1	What is Tyno	all eff	ect?	
	b)				dark to the passengers flying at high attitudes. Give reason.	
	c)				pear reddish in the early morning.	
	d)	- 11	What cause	s pres	byopia in old age?	
Q.	4A] (i		Select the completed		ct alternative given below each statement and write the ment.	(1)
	a)		The organis	m wh	ich reproduces binary fission is	
			And the second second second		amoeba, spirogyra]	
	b)	Ì	The transfe	r of po	ollen grains from anther to stigma is	
			[fertilization	n, poll	ination, reproduction, germination]	

	ii)	What are the limitations of using nuclear energy. (2 points)	(1)
	iii)	Why is wind energy eco-friendly?	(1)
	iv)	What are the principle advantages associated with solar cells?	(1)
В]	(i) a) b)	A gardener found it difficult to cultivate plants like rose and mogra as seeds of these plants were not available. Which method of vegetative propogation should the gardener use to grow such plants?	(2)
	U	What are the two advantages of growing plants by using vegetative propogation?	
	ii) a) b)	The reproductive parts of plants are located in flowers. Name the female reproductive part of flower. In which part are the ovules located? Why is stigma sticky?	(2)
	iii) a) b)	India ranks third in population next to China. Name any 2 contraceptive methods used by females. Name any 2 sexually transmitted diseases caused by bacteria.	(2)
C]	1)	Draw a neat diagram to show the germination of pollen on stigma and label a) pollen tube b) germ cell	(2)
	ii)	Testis are located outside abdominal cavity. Give reason. OR	(1)
1500	i) ii)	Draw a neat diagram of spore formation of Rhizopus and label spores and hyphae. What is the role of seminal vesicle and prostate gland?	(2) (1)
5A (i		Select the correct alternative given below each statement and write the complet Statement.	ed (1)
а) '	We get a virtual and enlarged image in a concave mirror when the object is placed	
	(at C, beyond C, at F, between P and F)	
b)		The near point for a normal human eye is	
/		250m, 25cm, 2km, 250cm)	
ii)		The slury from biogas plant is used as manure. Why?	(1)
iii)	D re	ifferentiate between concave and convex mirrors with respect to focal length and effecting surface.	(1)
iv)	C	onvex lens is a converging lens. Why?	(1)

Q.

	(i) a)	The curved surface of a spherical plate could be considered as a spherical mirror. (2) Write any two uses of convex mirror.	
	p)	The radius of curvature of a concave mirror is 10m. Find the focal length.	
	ü)	The printed letters on a page appear to be raised when a glass paper weight is kept over it.	2)
	a) b)	How does a ray of light bend when it travels from a rarer to a denser medium? State the snells law of reflection.	
	iii)	An object is placed 15cm infront of a concave mirror of focal length 12cm. At what distance from the mirror should a screen be placed so that a sharp focused image can be obtained. Also find the magnification produced by the mirror.	(2)
0	1 (1)	Draw a neat diagram to show the formation of image in a convex lens when an object is placed at infinity.	(2)
	ii)	What is the position, nature and size of image formed by a concave mirror when the object is placed at C?	(1)
•	C] (i	Draw a neat diagram to show the formation of image in a convex mirror when the object is placed between infinity and the pole of the mirror.	(3
	(i	i) What is the nature of the image formed by a concave lens when the object is place between infinity and optical centre of the lens.	ed