

# **GYANODAYA GURUKUL**

Affiliated to C.B.S.E., Delhi Gola Road, Bailey Road, Patna - 801503 Half Yearly Examination — (2019-20)

Class :- VIII Max. Marks :- 80
Subject :- SCIENCE Time Allowed :- 3 hr

#### **GENERAL INSTRUCTIONS:-**

- Questions are divided into four sections.
- > Read the questions carefully and write the answers in the answer sheets provided.
- ➤ Do not answer the questions randomly. Attempt all the questions of one section before moving on to another section.
- Do not write anything on the question paper.

## **SECTION A**

<u>SECTION A</u>							
1. Multip	le cho	ice questions (do any ten)		[1×10 = 10 marks]			
a)	In agi	riculture, broadcasting is used for :					
	i.	ploughing the fields	ii.	rotating the crops			
	iii.	removing the weeds	iv.	sowing the seeds			
b)	b) The process of beating out grains from the harvested wheat crop is called:						
	i.	beating	ii.	crushing			
	iii.	threshing	iv.	weeding			
c)	The process of conversion of sugar into alcohol is called:						
	i.	nitrogen fixation	ii.	moulding			
	iii.	fermentation	iv.	infection			
d)	d) The vaccine for smallpox was discovered by :						
	i.	Alexander Fleming	ii.	Edward Jenner			
	iii.	Louis Pasteur	iv.	Rober Koch			
e)	The man-made fibre made from the cellulose polymer is:						
	i.	nylon	ii.	acrylic			
	iii.	rayon	iv.	polyester			
f)	f) The non-metal which exists in the liquid state at room temperature is :						
	i.	fluorine	ii.	chlorine			
	iii.	bromine	iv.	iodine			
g)	The e	element which is stored under kerosene is	:				
	i.	sulphur	ii.	phosphorus			
	iii.	sodium	iv.	silicon			
h)	The n	najor component of LPG is :					

		i.	hydrogen		ii.	methane			
		ii.	carbon monoxide		iv.	butane			
	i)	The same force 'F' acts on four different objects having the areas given below,							
		one by o	one by one. In which case the pressure exerted will be the maximum?						
		i.	$20m^2$		ii.	50m <sup>2</sup>			
		iii.	$10m^2$		iv.	$100m^{2}$			
	j)	A pressu	ire of 10KPa acts or	n an area of $0.3~\mathrm{m}^2$ . The	force	acting on the area will			
		be:							
		i.	3000 Pa		ii.	3000 N			
		iii.	300 Pa		iv.	300 N			
	k)	If the sli	ding friction betwe	en two surfaces is foun	d to b	e 8 N, then the static			
		friction l	between these two	surfaces is most likely	to be	:			
		i.	5 N		ii.	10 N			
		iii.	4 N		iii.	2 N			
	l)	The frict	tional force exerted	by a fluid is called:					
		i.	brag		ii.	drab			
		iii.	drag		iv.	tread			
	m)	) Which o	f the following are	used to study the grow	th of f	oetus inside the mother's			
		womb?							
		i.	radio waves		ii.	X - rays			
		iii.	infrared wave		iv.	sound waves			
2. Fil	l in t	the blank	ss.(do any ten )			[1×10 = 10 marks]			
	_	_	_	eplenishment of soil w					
	b)		-	os at different intervals	is call	led			
	c)		is caused by						
	d)		ier of malaria caus			·			
	e)		form of PVC is						
	f)		-	roduce	_	_			
		g) A non-metal is used to make an antiseptic solution called tincture							
	h)		=	_	into	coal is called			
	i)		_	ll as					
	j) Atmospheric pressure with increasing heights.								
	k) Shape that are designed to reduce air resistance are called								
	l) Friction always opposes between the surfaces in contact with each other.								
	m)	) The unit	of frequency is	<del>-</del>					
				CDCMION 5					
				SECTION B					

3. Very short answer type questions.(do any five)

 $[2\times5=10 \text{ marks}]$ 

- a) Name the machine which does the cutting of standing crops and recovers the grain too.
- b) Name any two human disease caused by Fungi.
- c) Which of the two is a thermosetting plastic: PVC or Bakelite?
- d) Which non-metal is used in water purification process to make drinking water supply germ free?
- e) What is the full form of CNG?
- f) Name any two non-contact forces.
- g) Name two common lubricants.
- h) Name that part of ear which vibrates when outside sound falls on it.

#### **SECTION C**

### 4. Short answer type questions.(do any ten)

 $[3\times10=30 \text{ marks}]$ 

- a) What is a crop? What are the two types of crops based on season? Give one example of each.
- b) Define manure? State any two advantages of manure.
- c) What are micro-organisms? State the name of any two types of micro-organisms with one example of each.
- d) What is meant by food preservation? Name any four methods of preserving food.
- e) What is rayon? Give any two uses of rayon.
- f) Define i) Malleability ii) Ductility and iii) Sonorous.
- g) What type of oxides are formed:
  - i. When metals combine with oxygen? Give one example.
  - ii. When non-metals combine with oxygen? Give one example.
- h) What are Petrochemicals? Name any two petrochemicals.
- i) What is force? State any four effects of force.
- j) What is meant by atmospheric pressure? Why do mountaineers usually suffer from nose bleeding at high altitudes?
- k) Explain why
  - i. a pencil will write on paper but not on glass.
  - ii. climbing a greasy pole is very difficult.
- 1) State two advantages and two disadvantages of friction.
- m) Define the following terms.
  - i. Amplitude of vibration

ii. Time period of vibration

iii. Frequency of vibration

#### **SECTION D**

5. Long answer type questions.(do any four)

 $[5\times4=20 \text{ marks}]$ 

- a) (i) What is the process of 'transplantation' in agriculture? Give examples of two crops which are usually grown by this process.
  - (ii) State two advantages of the process of transplantation in growing crops.
- b) (i)Draw a neat, labelled diagram of nitrogen cycle in nature?
  - (ii) State two ways in which nitrogen gas of the atmosphere can be 'fixed' in nature to get nitrogen compounds in soil.
- c) Write any five differences in physical properties of metals and non-metals with examples. Also discuss any three exceptions.
- d) (i) How does the pressure of a liquid depends on its depth? Draw a labelled diagram to show that the pressure of a liquid (say, water) depends on its depth.
  - (ii) Explain why, the walls of dam are thicker near the bottom than at the top.
- e) (i) What is drag? Give two examples of a drag force.
  - (ii) How can you reduce the drag on something moving through the air?

-	BEST OF LUCK	