MID TERM EXAMINATION - SCIENCE

Time: 2¹/₂ hrs. Max. Marks : 60

General Instructions:

- i) There are 33 questions in all.
- ii) All questions are compulsory.
- iii) There are 5 sections in the question paper namely A, B, C, D and E.
- iv) Section A : Q. Nos. 1 to 14 are MCQs and carry 1 mark each.
- v) Section B : Q. Nos. 15 to 20 are very short answer type questions and carry 1 mark each.
- vi) Section C : Q. Nos. 21 to 25 are short answer type questions and carry 2 marks each.
- vii) Section D : Q. Nos. 26 to 30 are short answer type questions and carry 3 marks each.
- viii) Section E : Q. Nos. 31 to 33 are long answer type questions and carry 5 marks each.

SECTION – A : MULTIPLE CHOICE QUESTIONS (14 x 1 = 14 marks)

1.	Yeast is used in the production of a) Alcohol b) Sugar c)	Hydrochloric acid	d)	Oxygen	1
2.	a) Manuring of the mature crops manually	or by machines. Harvesting	d)	Winnowing	1
3.	Which of the following is used in the extraction a) Coke b) Coal tar c)	of many metals? Charcoal	d)	Coal	1
4.	Female Aedes mosquito acts as a carrier of a) Malaria b) Cholera c)		d)	Dengue	1
5.	Which of the following are contact forces? i) Friction iii) Magnetic force	ii) gravitational iv) muscular for			1
	a) (i) and (ii) c) (ii) and (iii)	b) (i) and (iv) d) (ii) and (iv)			
6.	Sound can travel through a) Gases only c) Liquids only	b) Solids only d) Solids, liquid	ls and ga	ises	1
7.	The device used for detecting charge on an objection of the second secon	ect is called: b) Telescope d) Kaleidoscope	e		1
8.	 Which of the following is not an advantage of fr a) It enables drawing to be made on paper b) It enables rubber pads to be rubbed off. c) It enables fallen things to be picked up. d) It enables vehicles to move on ground. 				1
9.	Voice of which of the following is likely to have a) Baby girl b) Baby boy c)		A won	nan	1
10.	Which of the following is used to reduce frictiona) A lubricating oilc) A layer of grease	on a carrom board? b) A dry lubrica d) A ball bearin			1

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11.	 When a glass rod is rubbed with a piece of silk cloth a) the rod and the cloth both acquire positive charge. b) the rod becomes positively charged while the cloth has a negative charge. c) the rod and the cloth both acquire negative charge. d) the rod becomes negatively charged while the cloth has a positive charge. 						
12.	Large scale storage of harvested grains is done in : a) silos b) granaries c) jute bags d) Both (a) and (b)	1					
13.	The gas which occurs above the petroleum oil trapped under the rocks is a) Biogas b) Petroleum gas c) Coal gas d) Natural gas	1					
14.	 Which of the following is not an example of muscular force? a) A person drawing water from a well. b) An apple falling from a tree. c) A child riding a bicycle. d) A porter carrying a load on a wheel barrow. 						
Section - B (1 mark questions)							
15.	A force with magnitude A and another with magnitude B act on an object in the same direction. What is the net force acting on the object?	1					
16.	Give any one advantage of sowing seeds with a seed drill.						
17.	Which constituent of petroleum is used in jet aircrafts?						
18.	Name the microorganism which reproduces only inside the host organism.						
19.	Why does a sharp knife cut objects effectively than a blunt knife?						
20.	Identify the part which vibrates to produce sound in the following instruments: a) Dholak b) Flute						
Section – C (2 marks questions)							
21.	Circle the odd one out and give reason for the same: a) Mustard, groundnut, gram, sunflower b) Forest, sunlight, wildlife, minerals						
22.	 Analogy type questions: a) Drip system: modern method of irrigation::: traditional method of irrigat b) Dysentery:::Polio: Viruses c) Amplitude: loudness of sound::: frequency of sound d) Common salt: meat:: Oil: 						
23.	Complete the following statements: a) Lightning conductor is a device used to b) Pressure exerted by water at the bottom of the container depends on						
24.	a) What is the difference between noise and music?b) In what ways noise pollution can be controlled. (any two)						
25.	a) What causes lightning?b) A negatively charged object A attracts another charged object B placed near it. What is the nature of charge on the object B?	2					

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Section – D (3 marks questions)

- 26. a) What do you mean by rolling friction?
 - b) Mention any one factor on which friction depends.
 - c) Explain why a pencil will write on paper but not on glass.
- 27. a) Define atmospheric pressure.
 - b) Name the types of forces involved in the following:
 - i) A coin falling to the ground on slipping from hands.
 - ii) A plastic comb rubbed in dry hair picking up tiny pieces of paper.
 - c) Draw a neat diagram **only** to show that liquids exert equal pressure at the same depth.
- a) Explain why a charged body loses its charge if we touch it with our hands.
 b) Suppose you are at home and an earthquake strikes. What precautions would you take to protect yourself? (any two)
- 29. a) Write any two characteristics of petroleum.
 - b) Describe how coal is formed from dead vegetation.
- 30. a) What kind of friction comes into play
 - i) when a block of wood kept on table just tends to move?
 - ii) when a block of wood kept on cylindrical iron rods moves?
 - b) Write any two disadvantages of friction.

Section – E (5 marks questions)

- 31. a) What are antibiotics? State any two precautions which must be taken while taking antibiotics?
 - b) Complete the following diagram of nitrogen cycle:



- 32. a) Define crop.
 - b) Excessive use of fertilisers is not good. Justify.
 - c) Why earthworms are known as farmers friends?
 - d) Differentiate between kharif and rabi crops. (any two)
- 33. a) Write an activity to show that sound can travel through liquids.
 - b) A pendulum oscillates 60 times in 3 seconds. Calculate its time period and frequency. Can we hear the sound produced by the oscillations of this pendulum? Give reasons for your answer.

-X-X-X-X-X-X-X-

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