

**KENDRIYA VIDYALAYA SANGATHAN**  
**HYDERABAD REGION**  
**COMMON SUMMATIVE ASSESSMENT-II**

**CLASS: VIII**

**MARKS: 60**

**SUBJECT: SCIENCE**

**DURATION: 2.30 Hrs**

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**GENERAL INSTRUCTIONS:**

1. All questions are compulsory.
2. There is no overall choice. However, internal choice has been provided in all the questions of five marks category only.
3. Q.No. I, II, III, IV carries each 01 Mark.
4. Q.No. V carries each 02 Marks.
5. Q.No. VI carries each 03 Marks.
6. Q.No. VII carries each 05 Marks.

**I. Fill in the blanks given below**

**1M x 5 = 5M**

1. The stage of an embryo when all the body parts can be identified is called\_\_\_\_\_.
2. \_\_\_\_\_is defined as the force acting on the unit area of the surface.
3. Time taken by an object to complete one oscillation is called\_\_\_\_\_.
4. The process of depositing a layer of any desired metal on another material by means of electricity is called \_\_\_\_\_.
5. Increase in the temperature due to increase in the carbon dioxide gas in the air leads to \_\_\_\_\_.

**II. Answer the following in one word or one sentence:**

**1M x 5 = 5M**

6. In which female reproductive organ does the embryo get embedded?
7. Name the male hormone responsible for secondary sexual characters.
8. Why do kabaddi players rub their hands with soil?
9. What is the audible range of frequencies for a normal human ear?
10. Name the natural satellite of the Earth.

**III. Mark the following statements as true (T) or false (F):**

**1M x 5 = 5M**

11. Fertilisation is necessary even in asexual reproduction. ( )
12. Liquids exert pressure on the walls of the container. ( )
13. The passage of an electric current through a conducting liquid causes chemical reactions. ( )
14. Uranus is the farthest planet in the solar system ( )
15. Sulphur dioxide and Nitrogen dioxide gases are responsible for acid rain. ( )

**IV. Choose the correct answer from the given options:**

**1M x 5 = 5M**

16. Which of the following is essential for the production of thyroxine that changes a tadpole to a frog?  
(a) Sodium (b) Iodine (c) Nitrogen (d) Oxygen ( )
17. Force of friction acts on the moving body in –  
(a) The same direction (b) the opposite direction ( )  
(c) Perpendicular direction (d) none of the above
18. In which of the following materials speed of sound is maximum? ( )  
(a) Iron (b) Sea water (c) Fresh water (d) Air
19. Which of the following cannot be charged easily by friction? ( )  
(a) A plastic scale (b) An inflated balloon (c) A copper rod (d) A woollen cloth
20. The splitting of white light into its seven constituent colours is called ( )  
(a) Dispersion (b) Reflection (c) Refraction (d) Rectilinear propagation

**V. Answer the following:**

**2M x 6 = 12M**

21. Adrenalin is the hormone secreted by an endocrine gland. Name the gland and write about the function of adrenalin.
22. Give two examples each of situations in which you push or pull to change the state of motion of objects.
23. What is an electrostatic force? Why is it called a non-contact force?
24. Iqbal has to push a lighter box and Seema has to push a similar heavier box on the same floor. Who will have to apply a larger force and why?
25. Give reasons for the following:  
i) Powder is sprinkled on the carrom board.  
ii) Sportsmen use shoes with spikes.
26. Give two differences between Asteroids and Comets.

**VI. Answer the following:**

**3M x 6 = 18M**

27. Define fertilisation. Differentiate between internal and external fertilisation.
28. Write short notes on the following:  
i) Adam's apple      ii) Secondary sexual characters      iii) Menopause
29. A pendulum oscillates 40 times in 4 seconds. Find its time period and frequency.
30. i) Draw and label a simple circuit showing electroplating.  
ii) List any two objects around you that are electroplated.
31. Draw sketches to show the relative positions of prominent stars in  
i) Ursa Major      ii) Orion.
32. Water is one of our most precious commodities and no life can survive without it. It has been predicted that water scarcity will become the subject of 'Wars' in the near future. Write any two ways in which water is getting polluted? Write any two measures to stop water pollution at your level?

**VII. Write detailed answers of the following:**

**5M x 2 = 10M**

33. i) What is earthing?  
ii) Explain how lightning conductors protect tall structures from damage due to lightning?  
iii) Suggest any two measures to protect ourselves from lightning.
- (OR)
- i) List any four changes in the body that take place at puberty.  
ii) What is balanced diet? Why is it more necessary for adolescents?  
iii) Why are chips, colas and junk food not good for health?
34. i) Draw a labelled sketch of the human eye.  
ii) 'Vision' is one of the wonderful gifts given to us by God. But most of the people never take care of their eyes. Care for eyes should be taken. Suggest two methods for proper eye care?
- (OR)
- i) List any two sources of noise pollution in your surroundings.  
ii) Explain in what way noise pollution is harmful to human.  
iii) Write any two measures to limit noise pollution.

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**HYDERABAD REGION**  
**SCORING KEY FOR COMMON SUMMATIVE ASSESSMENT-II**

**CLASS: VIII**

**SUBJECT: SCIENCE**

<b>Q.No.</b>	<b>Value Points/Expected Answer</b>	<b>Marks Distribution</b>	<b>Total Marks</b>
<b>I.1.</b>	Foetus	1	1
<b>2</b>	Pressure	1	1
<b>3</b>	Time Period	1	1
<b>4</b>	Electroplating	1	1
<b>5</b>	Global warming	1	1
<b>II. 6</b>	Uterus	1	1
<b>7.</b>	Testosterone	1	1
<b>8.</b>	For a better grip of their opponents	1	1
<b>9.</b>	20 to 20,000 Hz	1	1
<b>10.</b>	Moon	1	1
<b>III. 11</b>	False	1	1
<b>12</b>	True	1	1
<b>13</b>	True	1	1
<b>14</b>	False	1	1
<b>15</b>	True	1	1
<b>IV 16</b>	b. Iodine	1	1
<b>17.</b>	b. The opposite direction	1	1
<b>18.</b>	a. Iron	1	1
<b>19.</b>	c. a copper rod	1	1
<b>20.</b>	a. Dispersion	1	1
<b>V. 21.</b>	Adrenal gland	1	
	It helps the body to adjust to stress when one is very angry, embarrassed or worried	1	2
<b>22.</b>	i) we push the door to open it	1	
	ii) we pull the desk to change its position (any two examples)	1	2
<b>23.</b>	The force exerted by a charged body on another charged or uncharged body is known as electrostatic force. This force come into play even when the bodies are not in contact, so it is called non-contact force	1  1	2
<b>24.</b>	Seema will experience more frictional force. This is because heavy object will be pressed hard against the opposite surface and produces more friction.	1  1	2
<b>25</b>	i) To reduce friction	1	
	ii) To increase the friction	1	2
<b>26.</b>	Two differences between Asteroids and comets	1+1	2

Q.No.	Value Points/Expected Answer	Marks Distribution	Total Marks
<b>VI 27.</b>	Definition of Fertilization	1	3
	Internal Fertilisation	1	
	External Fertilisation	1	
<b>28.</b>	Adam's apple	1	3
	Secondary Sexual characters	1	
	Menopause	1	
<b>29</b>	Time taken by pendulum to complete 40 oscillations = 4 secs	1	3
	Time taken by pendulum to complete 1 oscillation = $4/40 = 1/10 = 0.1$ Sec		
	Time period of Pendulum = 0.1 second		
	Frequency of Pendulum = $1/\text{time period}$		
	$1/0.1 = 10$ Hz.		
<b>30.</b>	i) Circuit diagram showing electroplating (fig 14.7 pg 178)	2	3
	ii) bicycle handlebars, door handles, bath taps, showers (any two)	$\frac{1}{2} + \frac{1}{2}$	
<b>31.</b>	i. Diagram of Ursa Major	$1 \frac{1}{2}$	3
	ii. Diagram of Orion	$1 \frac{1}{2}$	
<b>32</b>	Two ways in which water is getting polluted	$\frac{1}{2} + \frac{1}{2}$	3
	Two measures to stop water pollution	$1 + 1$	
<b>VII. 33.</b>	i) Definition of earthing	1	5
	ii) Correct explanation	2	
	iii) Any two measures to protect ourselves from lightning	2	
	OR		
	i) Any four changes in the body that take place at puberty	$\frac{1}{2} \times 4 = 2$	5
	ii) explanation of balanced diet and its importance for adolescents.	$1 + 1 + 1$	
	iii) Less nutritional value		
<b>34</b>	i) Diagram of the human eye	1	5
	Labelling	2	
	ii) care of the eye ( any two points)	2	
	OR		5
	i) Sources of noise pollution ( any two )	$\frac{1}{2} + \frac{1}{2}$	
	ii) Harmful effects of noise pollution	$1 + 1$	
	iii) Measures to limit noise pollution	$1 + 1$	