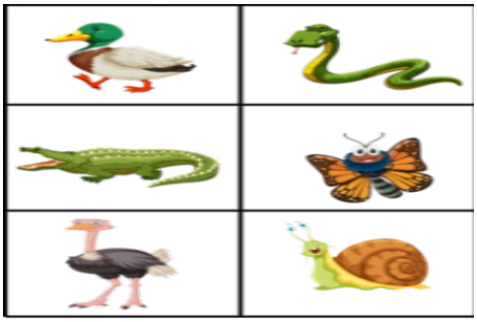
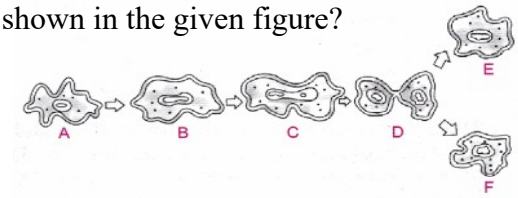
KENDRIYA VIDYALAYA SANGATHAN, RAIPUR REGION
SESSION ENDING EXAM (2024-25)
SUBJECT: - SCIENCE

CLASS: - VIII

MAX MARKS: - 60 **TIME- 2½ hrs**

General Instructions:-

1. This question paper comprises five sections A, B, C,D,E. There are 29 questions in the question paper. All questions are compulsory.
2. Section- A- Question no 1 to 15 are multiple choice questions carrying 1 mark each.
3. Section- B - Question no 16 to 20 are short answer type questions, carrying 2 marks each
4. Section- C - Question no 21 to 24 are short answer type questions, carrying 3 markseach.
5. Section- D - Question no 25 to 27 are long answer type questions, carrying 5 marks each.
6. Section- E- Question no 28 to 29 are case based type questions, carrying 4 marks each.

<table>
<tr><td></td><td colspan="4">SECTION- A: (MCQS)</td><td></td></tr>
<tr><td>S.NO</td><td colspan="4">QUESTIONS</td><td>Mark</td></tr>
<tr><td>1.</td><td colspan="4">1. Both male and female reproductive organ produce _____
<table><tr><td colspan="4">Answer Options</td></tr><tr><td>Option A</td><td>Option B</td><td>Option C</td><td>Option D</td></tr><tr><td>Sperms</td><td>Gamete</td><td>Ova</td><td>Egg</td></tr></table></td><td>1</td></tr>
<tr><td>2.</td><td colspan="4">The following animals give birth to their young ones by laying eggs and are called as –

<table><tr><td colspan="4">Answer Options</td></tr><tr><td>Option A</td><td>Option B</td><td>Option C</td><td>Option D</td></tr><tr><td>Viviparous</td><td>Carnivorous</td><td>Scavengers</td><td>Oviparous</td></tr></table></td><td>1</td></tr>
<tr><td>3.</td><td colspan="4">Which kind of asexual reproduction is shown in the given figure?


<table><tr><td colspan="4">Answer Options</td></tr><tr><td>Option A</td><td>Option B</td><td>Option C</td><td>Option D</td></tr><tr><td>Budding</td><td>Binary Fission</td><td>Fragmentation</td><td>Vegetative propagation</td></tr></table></td><td>1</td></tr>
<tr><td>4.</td><td colspan="4">Marathon runners need to stay trim and healthy but also need a lot of energy - which</td><td>1</td></tr>
</table>

Nutritional Highlights in g/100 g			
	Protein	Carbohydrates	Fats
A.	11.2	66.2	2.1
B.	26	0	0.2
C.	8.2	11.5	9
D.	8	10	0.5

of these foods would be most suitable for a marathon runner?

Answer Options			
Option A	**Option B**	**Option C**	**Option D**
A	B	C	D

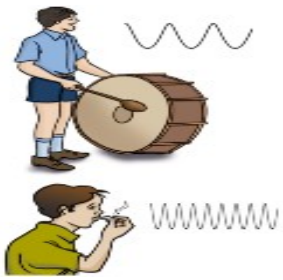
5. The egg of the female always contains an _____ chromosomes 1

Answer Options			
Option A	**Option B**	**Option C**	**Option D**
V	W	X	Y

6. The stoppage of menstruation is known as - 1

(a) Menarche (b) Menopause (c) Menstrual cycle (d) Men cyst

7. The figure below shows the frequency of vibration determines the _____ of a sound - 1



Answer Options			
Option A	**Option B**	**Option C**	**Option D**
Pitch	Time	Frequency	Amplitude

8. Loudness of a sound depends on - 1

(a) frequency (b) speed

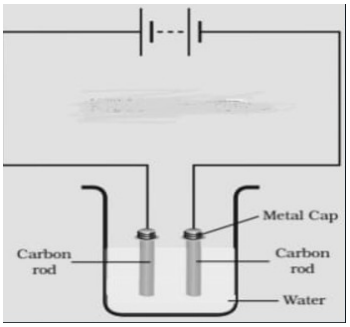
(c) amplitude (d) loudness

9. Human can hear sound in the range of - 1

(a) 200Hz-2000 Hz (b) 20Hz-20,000 Hz

(c) 2Hz-20000 Hz (d) 2000Hz-200000 Hz

10. Rahul conducted the following experiment and observed certain changes on the passage of an electric current through the conducting solution. Mark the **incorrect** option. 1

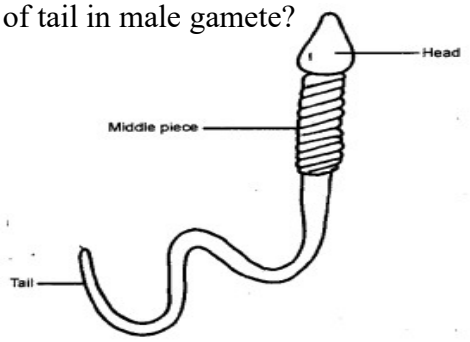


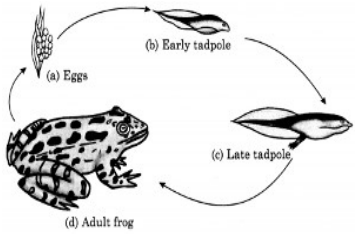
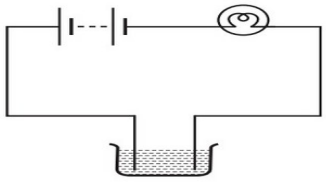
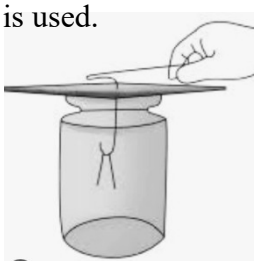
(a)Formation of bubbles

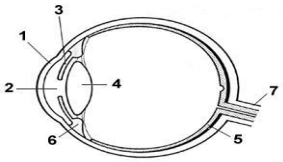
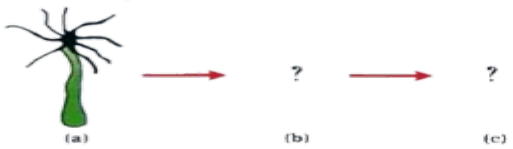
(b)Deposits of metal on electrodes.

(c)Changes of colour of solution occurs.

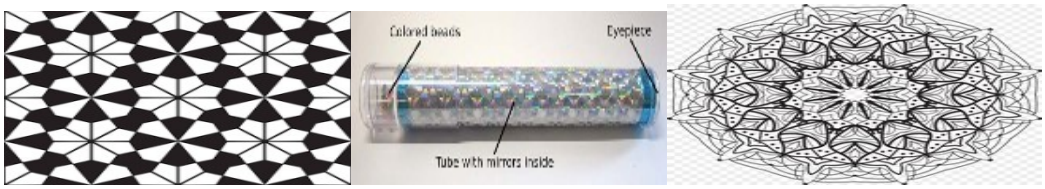
(d)On the passage of an electric current through the conducting solution, there will be no chemical reactions.

<table>
<tr><td>11.</td><td>The process of depositing a layer of any desired metal on another material by means of electricity is called _____.
(a) Electric plating (b) Electroplating
(c) Electric depositing (d) None of the above</td><td>1</td></tr>
<tr><td>12.</td><td>The instrument used to record the waves of an earthquake?
(a) Seismic scale (b) Seismograph
(c) Richter scale (d) Large scale</td><td>1</td></tr>
<tr><td>13.</td><td>To protect tall buildings from the damage of lightning, what can be done?
(a) Not to build tall buildings (b) Install lightning conductors
(c) Install many TV antennas (d) Have a roof top garden with tall trees</td><td>1</td></tr>
<tr><td>14.</td><td>Angle of incidence is 15º, what is the angle of reflection?
<table>
<tr><th colspan="4">Answer Options</th></tr>
<tr><th>Option A</th><th>Option B</th><th>Option C</th><th>Option D</th></tr>
<tr><td>15º</td><td>30º</td><td>45º</td><td>60º</td></tr>
</table></td><td>1</td></tr>
<tr><td>15.</td><td>Which of the following will produce a regular reflection?
(a) Mirror (b) Moon’s surface (c) Steel plate (d) Both a and c</td><td>1</td></tr>
<tr><td></td><td>SECTION-B (Short answer type questions)</td><td></td></tr>
<tr><td>16.</td><td>Identify the given figure and write the function of tail in male gamete?

</td><td>2</td></tr>
<tr><td>17.</td><td>List changes in the body that take place at puberty.(any four)</td><td>2</td></tr>
<tr><td>18</td><td>Sketch larynx and explain its function.</td><td>2</td></tr>
<tr><td>19.</td><td>Does pure water conduct electricity? Give reason.</td><td>2</td></tr>
<tr><td>20</td><td>(a) Sometimes a crackling sound is heard while taking off a sweater during winters. Explain. (b) What happens when a glass rod is rubbed with a piece of silk cloth?</td><td>2</td></tr>
<tr><td></td><td>SECTION-C (Short answer type questions)</td><td></td></tr>
<tr><td>21.</td><td>The new born individuals hatched from the egg may or may not look the same when they become adults. For instance in the case of frogs, tadpoles, silkworms etc the adults and young ones are completely different which occurs due drastic changes in their life cycle.</td><td>3</td></tr>
</table>

	(a) Name the process which is related with the life cycle of frogs shown in the given figure and also define it?  (b)Mention the stages of life cycle of silkworm?	
22.	The bulb does not glow in the setup shown in the given figure.  List the possible reasons. (any three)Explain your answer.	3
23	(a) Name the instrument shown in the diagram and for what it is used.  (b) Explain the working of this instrument?	3
24.	What are the effects of earthquakes**? (Any three)**	3
	SECTION-D (Long answer type questions)	
25.	a.Write the names of the hormones secreted by the following glands and mention their function. i.Thyroid gland ii.Pancreas iii.Adrenal gland b.Explain sex determination in the unborn baby with the help of flowchart.	5
26.	(a) A pendulum oscillates 60 times in 5 seconds. Find its time period and frequency. (b) The given figure represents noise pollution. Explain in what way noise pollution is harmful to humans. **(Any three)** 	5
27.	(a) Differentiate between regular and diffused reflection. Does diffused reflection	5

	mean the failure of the laws of reflection?Give reason in support of your answer. (b) Draw the diagram of diffused reflection. **OR** (a) Label the parts of the eye in the given figure.  1. _____ , 2._____, 3_____, 4_____, 5_____ , 6_____ , 7_____ (b) i) Name the Nerve cells which get stimulated during bright light. ii) Name the Nerve cells which get activated during dim light. iii) Which nerve cell helps us to identify the colours?	
	SECTION-E (Case Based type questions)	
28.	Budding is type of asexual reproduction in which an organism or new individual develops from an outgrowth from a single parent. This outgrowth is called bud. On maturation these buds get separated from the parent's body to grow into new individual. This process of reproduction is known as budding. For example, Hydra, yeast and sponges produce their young ones through the process of budding. (a) Unicellular organisms show sexual reproduction – True / False (b) Name the protruding part that develops on the body of Hydra. (c) What is asexual reproduction? (d) Draw the next sequence in the given diagram.  	4
29.	An optical instrument contains multiple mirrors that are placed at an angle to each other, so that one or more objects at one end of the mirrors are seen from the other end as a regular symmetrical pattern due to repeated reflection. When light hits an	4

object, it changes direction and reflects back to where it came from if it hits a shiny surface. This creates multiple images of the objects inside, resulting in a different symmetrical pattern.



(a) Name the optical instrument that forms images in a different pattern.

(b) Mirrors used in this instrument are placed at an angle of –

i) 30º ii) 40º iii) 50º iv) 60º

(c) On what principle this instrument is based on?

(d) Write any two applications of this instrument?