D.A.V. PUBLIC SCHOOL, THANE,
2021-2022
PERIODIC TEST-3
SCIENCE AND TECHNOLOGY

DATE: 25.01.2022 **TIME: 1.5 Hours**

STD: VIII **MAXIMUM MARKS: 40**

General Instructions:
1. This question paper has 16 questions in all. All questions are compulsory.
2. There is no overall choice. However, internal choices have been provided in some questions in each section.
3. The question paper has 4 sections: Sections A, B, C and D respectively;
Section A has 5 questions in all carrying a total of 8 marks.
Section B has 5 questions in all that are short answer type and carry 2 marks each.
Section C has 4 questions in all that are short answer type and carry 3 marks each.
Section D has 2 questions in all that are long answer type and carry 5 marks each.

SECTION A		**MARKS**
Q.1	The male hormone is called: a) Estrogen b) Thyroxine c) Testosterone d) Insulin	**1**
Q.2	The article to be electroplated during electrolysis is: a) Anode of electrolytic cell b) Cathode of the electrolytic cell c) electrolyte d) none of the above	**1**
Q.3	Define alloy. **OR** Name one metal and a non-metal which are liquid at room temperature.	**1**
Q.4	In multicellular organisms the needed special cells, or gametes are produced by the reproductive organs. When the two types of gametes, i.e. sperm and ovum unite, they form a single cell, called the fertilized egg. This process is called fertilization. i) Ovum or eggs are formed in: a) Ovary b) Testes c) Oviduct d) Uterus ii) The cell formed after fertilization is called: a) Embryo b) Foetus c) Zygote d) Gamete	**4**

iii) The fusion of sperm and ova usually occurs in the:
a) Ovary b) Uterus c) Testes d) Oviduct

iv) The site of development of foetus in the female body is:
a) Oviduct b) Ovary c) Uterus d) Vagina

Q.5 **For question number 5, two statements are given-one labeled Assertion (A) and the other labeled Reason (R). Select the correct answer to these questions from the codes (i), (ii), (iii) and (iv) as given below:**
(i) Both A and R are true, and R is correct explanation of the assertion.
(ii) Both A and R are true, and R is not the correct explanation of the assertion.
(iii) A is true but R is false.
(iv) A is false but R is true.
Assertion: Carbon reacts with oxygen to form carbon dioxide which is an acidic oxide.
Reason: Non-metals form acidic oxides. **1**

SECTION B

Q.6 What is puberty? Mention the age at which there is onset of puberty in males and females.
OR
List any two changes that occur during puberty. **2**

Q.7 Arrange aluminium, mercury, sodium and zinc in increasing order of their reactivity. **2**

Q.8 List any two applications of electroplating. **2**

Q.9 What do you mean by menopause? At which age it occurs? **2**

Q.10 Define Electromagnetic induction. Who discovered the phenomenon of electromagnetic induction? **2**

SECTION C

Q.11 **Complete the given table:** **3**

S. N	Name of gland	Name of hormone	Function controlled by hormone
1	A	Growth hormone	B
2	Thyroid gland	C	D
3	E	F	Lowers the blood glucose level

Q.12	Name three types of reproductive pattern on the basis of site of fertilization and development.	**3**
Q.13	Name three processes of metallurgy.	**3**
Q.14	Draw a well labelled diagram of voltaic cell. **OR** You are given following substances- Tap water, Nitric acid, Copper sulphate solution, Ammonium hydroxide. a) Classify them as strong and weak electrolyte. b) State one difference between strong and weak electrolyte	**3**
	SECTION D	
Q.15	a) Draw a well labelled diagram to show the process of fertilisation. b) What do you mean by hermaphrodite animals? **OR** a) Draw a diagram of female reproductive system with any three labeling. b) Give two points of difference between viviparous and oviparous animals with example.	**5**
Q.16	**Give reasons for the following:** a. Mention any one use of the following non-metals: i. Diamond ii. Graphite iii. Sulphur b. State the composition of the following alloys: i. Steel ii. Brass	**5**

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