

DAU

**SUMMATIVE ASSESSMENT I (2016-2017)**

**CLASS -VIII /A**

Roll.No. 743

**SUBJECT - SCIENCE**

**TIME : 3 HRS.**

**M.M. 90**

**Note:-i) Draw well labelled and neat diagrams.**

**ii) Do not copy the question but remember to put the correct answer number.**

**A. Very Short Answer Questions:-**

**1x10=10**

1. Define the term metamorphosis?
2. Name male and female gametes?
3. What are cell organelles?
4. What substance the cell wall of plants is composed of?
5. What is Red Data book?
6. Expand W.W.F.
7. Give one example each of rapid and spontaneous combustion.
8. Give one word for the following.
  - a) Lowest temperature at which a substance catches fire.
  - b) Amount of heat produced by burning of 1 gram fuel
9. What is the composition of natural gas?
10. What are petrochemicals?

**B. Differentiate b/w (Any five)**

**2x5=10**

- a) Flora and Fauna
- b) Oviparous and Viviparous organisms
- c) Asexual and sexual reproduction
- d) Internal and External Fertilisation
- e) Prokaryotic and Eukaryotic cells
- f) Extinct and endangered species

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3. Which of the following gases is poisonous?
 

a) Carbon dioxide	c) Natural gas
b) Oxygen	d) Carbon Monoxide
4. Which of these is not a by product of destructive distillation of coal?
 

a) Natural gas	c) Coke
b) Coal gas	d) None of the above
5. Which of these is a neutral Oxide?
 

a) Zinc Oxide	c) Sulphur dioxide
b) Aluminium oxide	d) carbon monoxide
6. Which of these is not present in a soda-acid fire extinguisher
 

a) Sodium bicarbonate	c) Hydrochloric acid
b) Baking soda	d) Sulphuric acid
7. Which of these fuels has the highest calorific value?
 

a) Hydrogen	c) L.P.G
b) Kerosene	d) Natural gas
8. The lowest level of organisation in a multicellular organism is
 

a) organ system	b) tissue
c) cell	d) organ
9. Who coined the term cell.
 

a) Robert Brown	c) Robert Crooke
b) Robert Brooke	d) Robert Hooke
10. Centromere is present only in
 

a) Plant cell	c) Onion cell
b) Animal cell	d) None of the above
- 11- A pair of testes lies in
 

a) Embryo sac	c) Ovary
b) Literus	d) Scrotal sac



8. a) How is coke obtained?  
b) List two important uses of coke?
9. a) What is meant by energy crisis?  
b) Suggest four ways by which we can conserve our energy resources.

**E. Long Answer Questions. (Any five) 5x5=25**

1. Draw and explain the various zones of a candle flame.
2. Name the two methods of asexual reproduction in animals & describe one method in detail with the help of diagrams.
3. Differentiate between plant cell and animal cell only with the help of diagrams.
4. What are the functions of the following cell organelles?  
i) Nucleus                      ii) Cell membrane  
ii) Green plastids              iv) Vacuoles  
v) Chromosomes
5. a) Define biodiversity? Why is it important to preserve biodiversity? List four uses.  
b) List 2 factors that have resulted in loss of biodiversity.
6. a) Define Deforestation. Give any 4 causes of Deforestation.  
b) What are the consequences of deforestation?  
c) How is deforestation and desertification related

**F. M.C.Q:- 1x11=11**

1. The female and male gametes fuse to form a  
a) foetus                      b) Zygote  
c) baby                        d) bud
2. A single egg is released in human beings  
a) Every week              b) Every month  
c) twice a month          d) can be released any time



**C. Give reasons (Any five) 2x5=10**

1. Why cannot water be used to extinguish fires caused by oil and petrol.
2. Why do animals reproduce?
3. Why are mitochondria known as power house of the cell?
4. Hydrogen has highest calorific value, yet it is not used as a fuel. Give reasons.
5. Why are fossil fuels called non renewable sources of energy?
6. Why is graphic used as an electrode in batteries.

**D. Short Answer Questions- (Any eight) 3x8=24**

- 1) What is displacement reaction? Give an example.
- 2) How do metals differ from non-metals in terms of
  - i) conductivity
  - ii) Malleability
  - iii) Lustre
- 3) Differentiate between-  
Oxides of metals & oxides of non-metals giving examples.
- 4) a) What is meant by smog?  
b) Name the different varieties of coal. Which one has the highest carbon content?
5. **Draw the label the following parts of the female Reproductive System.**
  - i) Which produces eggs
  - ii) Where fertilization takes place
  - iii) Pear shaped part where the embryo develops
  - iv) Passage through which fully developed foetus in born.
6. What is combustion? What are the conditions necessary for combustion to take place?
7. List the characteristics of a good fuel.