



## **DRC BIO CLASS 9 ICSE MMT**

### **TOPIC:SEED,GERMINATION & RESPIRATION**

**TIME=30 MINUTES**

#### **GROUP A**

**Mention whether the following statements are True (T) or False (F)**  
**(1x5=5)**

1. Plumule is the future root and radicle is the future shoot of the plant.
2. Micropyle serves for the emergence of the radicle.
3. Cotyledons in castor are a big store of food for the embryo.
4. Maize grain has a large endosperm.
5. Tegmen is the outermost layer of the seed.

#### GROUP B

MCQ

(1x5=5)

A) Glycolysis is a process

1. in which glycogen is broken down into glucose
2. which occurs in mitochondria
3. in which glucose is broken down into pyruvate
4. that occurs next to Krebs cycle.





B) Anaerobic respiration normally occurs in

1. Grass
2. Cactus
3. Coconut
4. Baker's yeast

C) The distinct whitish oval scar on the concave side of the seed is termed as :

1. Scutellum
2. Micropyle
3. Hilum
4. Germ pore

D) The single cotyledon of a maize grain is called:

1. Hypocotyl
2. Scutellum
3. Coleorhiza
4. Embryo

E) Which of the following is a catabolic process ?

1. Photosynthesis
2. Respiration





3. Both (a) and (b)
4. None of these

### GROUP C

#### Fill in the blanks

(ANY 5)(1x5=5)

1. .... are the openings found on older stems.
2. Glycolysis occurs in the ..... of the cells.
3. .... is a respiratory substance.
4. Rate of ..... is more than the rate of ..... in the daytime in the case of green plants.
5. .... is a chemical substance which absorbs oxygen of the air.
6. .... is used to create vacuum to show anaerobic respiration.

### GROUP D

#### Distinguish between the following pairs:

(2x5=10)

- (a) Aerobic and anaerobic respiration





- (b) Respiration and combustion
- (c) Stomata and lenticels
- (d) Photosynthesis and respiration
- (e) Anaerobic respiration in plants and animals

**GROUP E**

**Correct the following false statements by changing the first/last word only.** 1x5=5

- (a) Plumule develops into the root system.
- (b) Testa is the thin inner layer of the seed coat.
- (c) Endothelium separates the endosperm and embryonic region in the maize grain.
- (d) Hypocotyl elongates faster in hypogeal germination.
- (e) Germination is the period of rest in a seed.

