

## Multiple choice Questions:

1. Put a tick mark (✓) against the correct alternative in the following statements :

(a) In a germinating seed, the roots develop from :

- (i) Radicle  (ii) Plumule   
(iii) Tegmen  (iv) Hilum

(b) In a germinating seed, the shoot develops from :

- (i) Radicle  (ii) Plumule   
(iii) Tegmen  (iv) Hilum

(C) Which one of the following is a monocotyledonous seed?

- (i) Bean  (ii) Pea   
(iii) Maize  (iv) Gram

(D) If the cotyledons are pushed above the soil, then such type of germination is called:

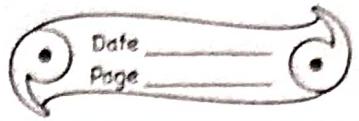
- (i) Epigeal  (ii) Hypogeal   
(iii) Perigeeal  (iv) Progeal

(E) If the cotyledons remain under the soil, then such type of germination is called:

- (i) Epigeal  (ii) Hypogeal   
(iii) Perigeeal  (iv) Progeal

(F) Pollen is produced in the:

- (i) Filament  (ii) Style   
(iii) Pistil  (iv) Anther



(g) Reproductive whorls of a flower are:

- |       |                     |   |
|-------|---------------------|---|
| (i)   | Stamens and carpels | ✓ |
| (ii)  | Sepals and petals   |   |
| (iii) | Sepals and stamens  |   |
| (iv)  | Petals and carpels  |   |

(h) Which one of the following is a false fruit?

- |       |        |   |
|-------|--------|---|
| (i)   | Tomato |   |
| (ii)  | Apple  | ✓ |
| (iii) | Potato |   |
| (iv)  | Pea    |   |

(i) In a seed food is generally stored in:

- |       |                         |   |
|-------|-------------------------|---|
| (i)   | Radicle                 |   |
| (ii)  | Plumule                 |   |
| (iii) | Fruit                   |   |
| (iv)  | cotyledons or endosperm | ✓ |

### Short Answer question

- Given below is a longitude of a bean seeds level the parts marked 1 to 5 and write their functions.
  - Testa: it is the outer exposed part of the seed.
  - Plumule: It is located between the two cotyledons and develops into a root.

3. Radicle : it is located between the two cotyledons and develops into a root.
4. Micropyle : It absorbs and allows the entry of as much as is required for germination.
5. cotyledon : It stores the food material which is used by the seedling for growth.
2. Name the following :
- (a) A seed which shows hypogaeal germination. Pea
- (b) A monocot seed. Maize grain
- (c) A dicot seed. Bean seed
- (d) A seed which shows epigeal germination. Bean seed