Tsi12Bio

## Tenkasi District Common Examinations First Revision Test - January 2023



### Standard 12

Time Allowed: 3.00 Hours BIOLOGY Maximum Marks: 70

BIO-BOTANY

Marks: 35 8×1=8

#### Choose the correct answer:

1) Solidifying agent used in plant tissue culture is

- a) Nicotinic acid b) Cobaltous chloride c) EDTA d) Agar
- 2) In which technique, Ethidium Bromide is used?
  - a) Southern blotting techniques
    c) Polymerase chain reaction
    b) Western blotting techniques
    d) Agrose gel electroporosis
- 3) If haploid number in a cell is 18. The double monosomic and trisomic number will be
  - a) 35 and 37 b) 34 and 35
- c) 37 and 35
- d) 17 and 19

### 4) Match the following:

- I. External fertilization
- i) Pollen grain
- ii) Antherwall II. Androecium
- III. Male gametophyte iii) Algae

- IV. Primary parietal layer iv) Stamens

  a) I-iv; II-i; III-ii; IV-iii b) I-iii; II-iv; III-i; IV-ii c) I-iii; II-iv; III-ii; IV-ii d) I-iii; II-i; III-iv; IV-ii 5) **Assertion**: Turmeric fights various kinds of cancer.

**Reason**: Curcumin is an anti-oxidant present in turmeric.

- a) Assertion is correct; Reason is wrong.b) Assertion is wrong; Reason is correct.
- c) Both are correct.
  - d) Both are wrong.
- 6) The ozone layer of troposphere is called
  - a) Middle ozone b) Ozone shield c) Bad ozone d) Good ozone
- (3 7) From the following which one is the column of sterile tissue surrounded by the anther lobe. STORES APPLIED OF A CHIEF IX
  - a) Periplasmodium b) Pollen chamber c) Connective tissue d) Tapetum วิธีชาวิน สุรัย แบก
  - 8) The group of degradable biopolymers are
    - a) Cry IAC and DMH II
      c) GFP and PGA
- b) PHAs and PHB

c) GFP and PGA

d) DMH and HT

#### Answer any four of the following:

- 9) Write short note on Pollen kitt.
- 10) What are multiple alleles?
- 11) Name the enzymes involved in genetic engineering.
- 12) What is pseudocereal? Give an example.
- 13) Define Food Web.

  14) Define Habitat.

## III. Answer any three of the following:

- Q.No. 19 is compulsory.
- 15) Give an account on Cryopreservation.
- 16) What is Albedo effect? Write their effects.

  17) Write a note on beterools
- 17) Write a note on heterosis.
- 18) What is Energy flow?
  - 19) Write a short note on pBR322 plasmid,

# IV. Answer all the following:

- 20) a) With a suitable diagram, explain the structure of an ovule. (OR)
- What is gene mapping? Write its uses.
- 21) a) How will you protect ecosystem?

(OR)

Explain the following:

(a) Interferons (b) Biomagnification with example

(OR) si sam motil un sec