

Shivaji University, Kolhapur
Summer Examination 2020

Course Name : 65845-Botany Paper XVI
Subject Name : (65845)Botany Paper XVI

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Date : 03/11/2020

Time : 11:00AM - 12:00PM

Paper Code :
65845

Max. Marks :
50

महत्वाची सूचना : विद्यार्थ्यांनी 30 पैकी 25 प्रश्न सोडवावेत (प्रत्येकी 2 मार्कस) अथवा 60 पैकी
50 प्रश्न सोडवावेत (प्रत्येकी 1 मार्क)

Q.1

Transformation experiment were initially conducted by-----.

- | | |
|----------------|------------|
| (1)F. Griffith | (3)Macleod |
| (2)Avery | (4)Hershey |

Q.2

Which strain of *Diplococcus pneumoniae* is virulent.

- | | |
|-------------------------|-----------------------------|
| (1)Rough strain | (3)heat killed S III strain |
| (2)Smooth walled strain | (4)heat killed rough |

Q.3

----- proved that DNA is the sole genetic material in bacteriophage.

- | | |
|----------------------|----------------|
| (1)Watson and Crick | (3)Bateson |
| (2)Hershey and Chase | (4)M. Delbruck |

Q.4

TMV Means -----.

- | | |
|--------------------------------------|-------------------------|
| (1)Tobacco Motile Virus | (3)Tobacco Mosaic Virus |
| (2)Transformation Mechanism in Virus | (4)Total Motile Virus |

Q.5

----- are purine nitrogen bases.

- | | |
|-------------------------|-------------------------|
| (1)Adenine and Thymine | (3)Adenine and Guanine |
| (2)Cytosine and Guanine | (4)Thymine and Cytosine |

Q.6

----- nitrogen base is not found in DNA.

- | | |
|------------|------------|
| (1)Adenine | (3)Thymine |
| (2)Uracil | (4)Guanine |

Q.7

----- are double ring compound.

- | | |
|-------------|------------|
| (1)Cytosine | (3)Thymine |
| (2)Uracil | (4)Guanine |

Q.8

The backbone of DNA is made up of -----.

- (1) Only sugars
- (2) Sugar and Phosphate
- (3) Only Phosphates
- (4) Hydrogen bonds

Q.9

Enzyme that cuts DNA at a specific site is -----.

- (1) DNA Polymerase
- (2) Restriction endonuclease
- (3) DNA ligase
- (4) reverse transcriptase

Q.10

Identify the vector suitable for cloning long DNA fragments.

- (1) Bacteriophage
- (2) Plasmid
- (3) Cosmid
- (4) YAC

Q.11

Extra chromosomal DNA used as vector in gene cloning is -----.

- (1) Plasmid
- (2) Exon
- (3) Intron
- (4) Transposons

Q.12

Bt-cotton is -----.

- (1) cloned plant
- (2) mutated plant
- (3) hybrid plant
- (4) transgenic plant

Q.13

Thermal cycle for amplification of DNA is used in technique -----.

- (1) Polymerase Chain Reaction
- (2) catalytic reaction
- (3) biochemical reaction
- (4) radio-activation

Q.14

Ti-plasmid is obtained from -----.

- (1) Azotobacter
- (2) Agrobacterium
- (3) Rhizobium
- (4) Yeast

Q.15

Bt in Bt-cotton stands for -----.

- (1) Bio-technology
- (2) Bacillus tomentosa
- (3) Bacillus thuringiensis
- (4) Best type

Q.16

Polymerase Chain Reaction (PCR) useful in -----.

- (1) Protein synthesis
- (2) amplification of DNA
- (3) amino acid synthesis
- (4) DNA synthesis

Q.17

r-DNA technology was discovered by -----.

- (1) Cohen and Boyer
- (2) Sutton and Boveri
- (3) Bateson and Punnett
- (4) H. Khorana

Q.18

In Southern Blotting ----- is separated by gel electrophoresis.

- (1)DNA
- (2)RNA
- (3)Protein
- (4)both DNA and RNA

Q.19

The ability of matured plant cell to divide and re divide on the artificial medium under aseptic conditions to produce an entire plant of that type is called -----.

- (1)wilting
- (2)totipotency
- (3)chlorosis
- (4)senescence

Q.20

The unorganized mass of thin walled cells developed from the tissues or organs during plant tissue culture is called -----.

- (1)callus
- (2)meristem
- (3)embryo
- (4)protoplast

Q.21

Formation of organs during the plant tissue culture is -----.

- (1)embryogenesis
- (2)gluconeogenesis
- (3)organogenesis
- (4)cryopreservation

Q.22

The protoplast, cell, tissue or organ of the plant used for plant tissue culture is called -----.

- (1)explant
- (2)symplast
- (3)idioblast
- (4)fusogen

Q.23

----- is transfer of plant tissue on the culture medium.

- (1)Incubation
- (2)isolation
- (3)inception
- (4)inoculation

Q.24

Transgenesis helps in production of ----- traits.

- (1)inferior
- (2)superior
- (3)moderate
- (4)normal

Q.25

The technique of hybrid formation by the fusion of ----- is known as somatic hybridization.

- (1)Embryo
- (2)meristem
- (3)organ
- (4)protoplast

Q.26

----- is the father of plant tissue culture.

- (1)Bonner
- (2)Laibach
- (3)Haberlandt
- (4)Gautheret

Q.27

Lux gene functions for synthesis of -----.

- (1)bleomycin
- (3)nopaline

(2)luciferase

(4)octopine

Q.28

Agrobacterium is ----- soil bacterium.

(1)Gram negative

(3)Gram coccus

(2)Gram positive

(4)Gram vibrio

Q.29

Ti plasmid in *Agrobacterium* induces -----.

(1)transfer

(3)technique

(2)tumour

(4)termination

Q.30

Golden rice biosynthesize beta carotene which is precursor of vitamin -----.

(1)B

(3)D

(2)A

(4)C