



V.M.G.R.R SRI SARADA SAKTHI MAT. HR. SEC. SCHOOL

STD: XII

BIOLOGY SET-3 (B L-2,8 Z L -3,9)

MARKS-50

I.CHOOSE THE CORRECT ANSWER :

35X1=35

1. Which of the molecule have the ability to convert a precursorb in the cell of peaplant?

- a) Le; le b) GAI c)Le d) le

2.Which of the following is correct match for the Column I and Column II

Column - I Column - II

- | | |
|------------------------|-----------------|
| I). 0.2 to 2.00 mm | i) Slit soil |
| II) Less than 0.002 mm | ii) Clayey soil |
| III) 0.002 to 0.02 mm | iii) Sandy soil |
| IV) 0.002 to 0.2 mm | iv) Loamy soil |

- a) ii iii iv i
- b) iv i iii ii
- c) iii ii i iv
- d) None of the above

3.Assertion: Vegetables are important part of healthy eating.

Reason: Vegetables are succulent structures of plants with pleasant aroma and flavours.

- a) Assertion is correct, Reason is wrong
- b) Assertion is wrong, Reason is correct
- c) Both are correct and reason is the correct explanation for assertion.
- d) Both are correct and reason is not the correct explanation for assertion.

4. Match Column I with Column II

Column I Column II

- | | |
|--|---------------------------------------|
| i) William S. Gaud I) Heterosis | |
| ii) Shull II) Mutation breeding | |
| iii) Cotton Mather III) Green revolution | |
| iv) Muller and Stadler IV) Natural hybridization | |
| a) i – I, ii – II, iii – III, iv – IV | b) i – III, ii – I, iii – IV, iv – II |
| c) i – IV, ii – II, iii – I, iv – IV | d) i – II, ii – IV, iii – III, iv – I |

16. Choose the correct statement(s) about tenuinucellate ovule
- Sporogenous cell is hypodermal
 - Ovules have fairly large nucellus
 - sporogenous cell is epidermal
 - ovules have single layer of nucellus tissue
17. Which of the following represent megagametophyte
- Ovule
 - Embryo sac
 - Nucellus
 - Endosperm
18. Animals giving birth to young ones:
- Oviparous
 - Oviviviparous
 - Viviparous
 - Both a and b
19. Human beings are unisexual animals, the type of Syngamy in human beings is __
- autogamy
 - exogamy
 - hologamy
 - paedogamy
20. Which among the following animals exhibits Oviviviparity?
- Frog
 - shark
 - sheep
 - hen
21. The glandular accessory organ which produces the largest proportion of semen is
- Seminal vesicle
 - Bulbourethral gland
 - Prostate gland
 - Mucous gland
22. The male homologue of the female clitoris is
- Scrotum
 - Penis
 - Urethra
 - Testis
23. Identify the correct statements from the following
- Chlamydia is a viral disease.
 - Gonorrhoea is caused by a spirochaete bacterium, *Treponema palladium*.
 - The incubation period for syphilis is 2 to 14 days in males and 7 to 21 days in females.
 - Both syphilis and gonorrhoea are easily cured with antibiotics.
24. A contraceptive pill prevents ovulation by
- blocking fallopian tube
 - inhibiting release of FSH and LH
 - stimulating release of FSH and LH
 - causing immediate degeneration of released ovum.
25. Choose the correctly match pair.
- Amphetamines - Stimulant
 - LSD - Narcotic
 - Heroin - Psychotropic
 - Benzodiazepine - Pain killer
26. A 30 year old woman has bloody diarrhoea for the past 14 hours, which one of the following organisms is likely to cause this illness?
- Streptococcus pyogenes*
 - Clostridium difficile*
 - Shigella dysenteriae*
 - Salmonella enteritidis*
27. B cells that produce and release large amounts of antibody are called
- Memory cells
 - Basophils
 - Plasma cells
 - killer cells
28. Cry toxins obtained from *Bacillus thuringiensis* are effective against for _____

- a) Mosquitoes b) Flies c) Nematodes d) Bollworms
29. Cyclosporin – A is an immunosuppressive drug produced from _____
 a) *Aspergillus niger* b) *Monascus purpureus*
 c) *Penicillium notatum* d) *Trichoderma polysporum*
30. The genetic defect adenosine deaminase deficiency may be cured permanently by
 a) Enzyme replacement therapy
 b) periodic infusion of genetically engineered lymphocytes having ADA cDNA
 c) administering adenosine deaminase activators
 d) introducing bone marrow cells producing ADA into embryo at an early stage of development.
31. The first clinical gene therapy was done for the treatment of
 a) AIDS b) Cancer c) Cystic fibrosis d) SCID
32. Recombinant Factor VIII is produced in the ----- cells of the Chinese Hamster
 a) Liver cells b) blood cells c) ovarian cells d) brain cells.
33. PCR proceeds in three distinct steps governed by temperature, they are in order of
 a) Denaturation, Annealing, Synthesis b) Synthesis, Annealing, Denaturation
 c) Annealing, Synthesis, Denaturation d) Denaturation, Synthesis, Annealing
34. 'X' is a microbial product obtained from *Monascus purpureus* and it helps to reduce blood cholesterol level.
 a) X is cyclosporine b) X is Statins c) X is Humulin d) X is Kanamycin
35. The phenomenon of “Industrial Melanism” demonstrates
 a) Natural selection b) induced mutation
 c) reproductive isolation d) geographical isolation

II. ANSWER THE FOLLOWING :**3X5=15**

36. Differentiate incomplete dominance and codominance.

OR

Bring out the inheritance of chloroplast gene with an example.

37. What are the strategies to be implemented in India to attain total reproductive health?

OR

Explain the best suited type followed by plant breeders at present?

38. One of the applications of biotechnology is ‘gene therapy’ to treat a person born with a hereditary disease

i) What does “gene therapy” mean?

ii) Name the hereditary disease for which the first clinical gene therapy was used.

iii) Mention the steps involved in gene therapy to treat this disease.

OR

PCR is a useful tool for early diagnosis of an Infectious disease. Elaborate.

www.Padasalai.Net