



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

STD: XII

BIOLOGY SET -4

MARKS-70

BIO-BOTANY

MARKS-35

I. CHOOSE THE CORRECT ANSWER :

8X1=8

- While studying the history of domestication of various cultivated plants _____ were recognized earlier
a) Centres of origin b) Centres of domestication c) Centres of hybrid d) Centres of variation
- Pick out the odd pair.
a) Mass selection - Morphological characters b) Purline selection - Repeated self pollination
c) Clonal selection - Sexually propagated d) Natural selection - Involves nature
- Jaya and Ratna are the semi dwarf varieties of
a) wheat b) rice c) cowpea d) mustard
- A wheat variety, Atlas 66 which has been used as a donor for improving cultivated wheat, which is rich in
a) iron b) carbohydrates c) proteins d) vitamins
- 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
- The active principle trans-tetra hydro canabial is present in
a) Opium b) Curcuma c) Marijuana d) Andrographis
- Which one of the following matches is correct?
a) Palmyra - Native of Brazil b) Saccharun - Abundant in Kanyakumari
c) Steveocide - Natural sweetener d) Palmyra sap - Fermented to give ethanol
- The only cereal that has originated and domesticated from the New world.
a) *Oryza sativa* b) *Triticum asetumn* c) *Triticum durum* d) *Zea mays*

II. ANSWER ANY FOUR OF THE FOLOWING :

4X2=8

- Differentiate primary introduction from secondary introduction.
- How are microbial inoculants used to increase the soil fertility?
- Give definitions for organic farming?
- Write the role of Jasmine in perfuming.
- Write the uses of nuts you have studied.
- Differentiate bio-medicines and botanical medicines.

III. ANSWER ANY THREE OF THE FOLLOWING :

3X3=9

- Write a note on heterosis.
- What are the different types of hybridization?
- If a person drinks a cup of coffee daily it will help him for his health. Is this correct? If it is correct, list out the benefits.
- Enumerate the uses of turmeric.
- Give an account of active principle and medicinal values of any two plants you have studied.

IV. ANSWER ALL THE QUESTIONS :

2X5=10

- List out the new breeding techniques involved in developing new traits in plant breeding.

OR

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

- What are psychoactive drugs? Add a note *Marijuana* and *Opium*

OR

What are the King and Queen of spices? Explain about them and their uses

BIO-ZOOLOGY**MARKS-35****8X1=8****I. CHOOSE THE CORRECT ANSWER :**

1. Which of the following is an r-species
a) Human b) Insects c) Rhinoceros d) Whale
2. Organisms which can survive a wide range of temperature are called
a) Ectotherms b) Eurytherms c) Endotherms d) Stenotherms
3. Animals that can move from fresh water to sea called as.....
a) Stenothermal b) Eurythermal c) Catadromous d) Anadromous
4. Which of the following forests is known as the lungs of the planet earth?
a) Tundra forest b) Rain forest of north east India c) Taiga forest d) Amazon rain forest
5. Which of the following is considered a hotspots of biodiversity in India
a) Western ghats b) Indo-gangetic plain c) Eastern Himalayas d) A and C
6. Which among the following awards instituted by the Government of India for individuals or communities from rural areas that have shown extraordinary courage and dedication in protecting Wildlife?
a) Indira Gandhi Paryavaran Puraskar b) Medini Puruskar Yojana
c) Amrita Devi Bishnoi Award d) Pitambar Pant National Award
7. Which among the following is the most abundant Green-House-Gas (GHG) in the earth's atmosphere?
a) Carbon dioxide b) Water Vapour c) Sulphur Dioxide d) Tropospheric Ozone
8. As per 2017 statistics, the highest per capita emitter of Carbon dioxide in the world is
a) USA b) China c) Qatar d) Saudi Arabia

II. ANSWER ANY FOUR OF THE FOLLOWING :**4X2=8**

9. What is a Habitat?
10. Differentiate between Eurytherms and Stenotherms.
11. 'Red data book' - What do you know about it?
12. Define endemism.
13. What is SMOG and how it is harmful for us?
14. "Amazon forest is considered to be the lungs of the planet" - Justify this statement.

III. ANSWER ANY THREE OF THE FOLLOWING :**3X3=9**

15. Differentiate Natality and Mortality.
16. Differentiate J and S shaped curve.
17. List out the various causes for biodiversity losses.
18. Compare and Contrast the insitu and exsitu conservation.
19. Write about ecosan toilets.

IV. ANSWER ALL THE QUESTIONS :**2X5=10**

20. Give an account of the properties of soil.

OR

Differentiate between Tundra and Taiga Biomes.

21. Mention the major threats to biodiversity caused by human activities. Explain.

OR

What are the effects of noise pollution .