

B.Sc. FOOD SCIENCE & TECHNOLOGY
FIFTH SEMESTER
TEA PLANTATION TECHNOLOGY
BFST-505
[USE OMR SHEET FOR OBJECTIVE PART]

SET
A

Duration: 3 hrs.

Full Marks: 70

(Objective)

Time: 30 mins.

Marks: 20

Choose the correct answer from the following:

1 × 20 = 20

- Blister blight in tea tree is produced by which category of microbes?
 - Molds
 - Algae
 - Bacteria
 - Fungus
- What is the cause of the tea plant disease Horse hair blight?
 - Algae
 - Fungus
 - Bacteria
 - None of the above
- Poria root disease in tea plant is commonly known as _____ root disease.
 - Brown
 - Grey
 - Black
 - Red
- The causal organism of Tea scale disease is _____.
 - Ptytophthora cinnamomi*
 - Tetranychusurticae*
 - Fioriniatheae*
 - None of the above
- The cause of Spider mite disease in tea tree is:
 - Fungus
 - Arachnid
 - Mites
 - Algae
- Full form of SCOBY is:
 - Symbiotic consortium of bacteria and yeast
 - Symbiotic culture of bacteria and yeast
 - Both of the above
 - None of the above
- Drying time of White tea is _____.
 - 12-24 hour
 - 2-5 minutes
 - 24-48 hour
 - None of the above
- How many flushes tea plant have?
 - 4
 - 1
 - 3
 - 2
- Tieguanyin is a variety of _____ tea.
 - Green
 - Black
 - Oolong
 - None of the above
- What is "imperial pick" in Tea?
 - Bud+1 leaf
 - Bud+2 leaves
 - Bud+ no leaf
 - Bud+3 leaves

11. Theaflavins are _____coloured pigments.
- a. Orange/red
 - b. Brown
 - c. Amber
 - d. None of the above
12. Highest grade in tea is:
- a. FTGBOP
 - b. BPO1
 - c. BPS
 - d. None of the above
13. An enzyme present in tea is:
- a. Phenol oxidase
 - b. Polyphenol oxidase
 - c. Both of the above
 - d. None of the above
14. Tieguanyin is a variety of_____ tea.
- a. Green
 - b. Black
 - c. Oolong
 - d. White
15. Chemical formula of Caffeine is:
- a. $C_8H_{10}N_4O_2$
 - b. $C_{10}H_8N_4O_2$
 - c. $C_8H_{10}N_2O_4$
 - d. None of the above
16. Geraniol contributes to _____like aroma in tea.
- a. Gerbera
 - b. Rose
 - c. Jasmine
 - d. None of the above
17. Longjing green tea is also known as:
- a. Silver needle
 - b. Big red lobe
 - c. White peony
 - d. Dragonwell
18. Bai mudan tea is also known as:
- a. White needle
 - b. Silver needle
 - c. White peony
 - d. Silver peony
19. Hyson is a _____green tea.
- a. Chinese
 - b. Japanese
 - c. Taiwanese
 - d. None of the above
20. An important amino acid found in tea is:
- a. Lysin
 - b. Theanine
 - c. Valine
 - d. Methionine

(Descriptive)

Time : 2 hr. 30 mins.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

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| 1. Discuss the processes involved in black tea manufacture with the help of a table. | 10 |
| 2. Elaborate the different types of dryers used in Tea drying. | 10 |
| 3. Elaborate the importance of Tea science. | 10 |
| 4. Explain the biochemical changes occurring during Tea Fermentation. | 10 |
| 5. Write in detail about the life cycle and growth pattern of Tea Plant with the help of diagrams. | 10 |
| 6. Elaborate the grading system of Tea. | 10 |
| 7. Discuss in detail about the Physical, Chemical and Rheological Tests involved in Tea processing. | 10 |
| 8. Explain the following terms in detail: <i>(any two)</i> | 5+5=10 |
| a) Tea Concentrates | |
| b) Tea Flavor | |
| c) Tea Aroma | |

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