

ST. THOMAS' COLLEGE (AUTONOMOUS), THRISSUR

DEPARTMENT OF BOTANY - UG

SYLLABUS FOR BRIDGE COURSE (2019-2020)

Reasoning & Logical Ability

Verbal reasoning, letter and symbol series, verbal classification, logical reasoning etc.

Communication Skills & Language Aptitude

Communication – introduction – in animals, including human beings. Human Communication: purpose (ideas, feelings, data...), Communication: oral, written and visual.

Oral: way of speech – formal / informal – formal: formal settings (official)- informal: between/among peers.

Written: all forms of writing letters: business, official, minutes, applications, notifications, certificates etc.

Visual: pictures, graphs, charts, signs, hoardings, posters, maps, photographs etc.

Audio-visual: sound and visuals.

Non-verbal Communication: 1) Body language (emotions, feelings, eye contact, gestures, posture etc.) (2)

Paralanguage: pitch, intonation, stress etc.

Core Course: Botany

Introduction - Anatomy, Embryology, Palynology, Microbiology, Mycology, Lichenology, Plant pathology, Phycology, Bryology, Pteridology, Biostatistics, Biophysics, Microtechnique, Gymnosperms, Plant physiology, Biochemistry, Cytology, Metabolism, Tissue culture, Environmental science, Biotechnology, Plant breeding, horticulture, Economic Botany, Ethnobotany, Plant systematics, Evolution.

Complementary course 1: Zoology

Classification – numerical taxonomy, phylogenetic taxonomy, evolutionary taxonomy, five kingdom classification.

Protista, porifera, coelenterata, platyhelminthes, aschelminthes, annelid, arthropoda, mollusc, echinodermata, cordata.

Animal diversity – Prawn and Rabbit.

Introduction- Economic zoology, Physiology, Toxicology, Ethology, Genetics, Immunology.

Complementary course 2: Chemistry

Atomic radii – electronegativity – Mole concept – Standard solution – primary standard solutions – Covalent bond – ionic bond – N/P ratio – Nuclear fission – Haemoglobin – Chlorophyll.

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B.Sc. Botany Bridge Course Evaluation 2019-2020

Time: 30 minutes

Total Marks: 60

Section I Reasoning & Logical Ability

1. Find the next term of the series 1,5,11,19, ... (a)32 (b)28 (c)29 (d)33
2. $234 \times 0 \times 11 \times 22 =$ (a)555 (b)0 (c)310 (d)None of these
3. Find the odd one out (a)Rabbit (b) Cat (c)Elephant (d)Deer
4. A fruit basket contains more apples than lemons
There are more lemons in the basket than there are oranges
The basket contains more apples than oranges
If the first two statements are true, the third statement is
(a)True (b) False (c) Need not be true (d) None of these
5. Choose an answer based on given information:
"When they heard news of the hurricane, Maya and Julian decided to change their vacation plans. Instead of traveling to the island beach resort, they booked a room at a fancy new spa in the mountains. Their plans were a bit more expensive, but they'd heard wonderful things about the spa and they were relieved to find availability on such short notice".
(a)Maya and Julian take beach vacations every year
(b)The spa is overpriced.
(c)It is usually necessary to book at least six months in advance at the spa.
(d)Maya and Julian decided to change their vacation plans because of the hurricane.
6. Which word does NOT belong with the others?
(a)Tyre.(b)Steering wheel (c)Engine(d)Car
7. Fill the blank in the end of the series.
FAG, GAF, HAI, IAH, ____ (a)JAK.(b)HAL (c)MAN(d)PAQ

Section II Communication Skills & Language Aptitude

8.is the act of expressing ideas, feelings, and transferring data to others.
a) music b) communication c) pronunciation d) transformation
9. Greetings, chats and casual conversations are generally considered communication.
a) informal b) formal c) official d) structural
10. The branch of linguistics that comprises the study of the sounds of human speech is.....
a) kinetics b) appendix c) cybernetics d) phonetics
11.is the way human body communicates through its physical movements and changes in demeanour.
a) proxemics b) sign language c) body language d) arbitrariness
12. The particular feature of human language to refer to past and future time is called
a) displacement b) reflexivity c) creativity d) duality

Section III Questions from Qualifying Course

13. By examining the four match pairs given below find out the correct matched pairs from the alternatives given below. (i) Photolysis of water - Stroma

(ii) Carbon fixation – RuBisCO

(iii) Accessory pigment - Chlorophyll a

(iv) C3 Pathway - Calvin

a) (i) and (iv) b) (ii) and (iv) c) (ii) and (iii) d) (i) and (iii)

14. Identify the statement which is applicable to cyanobacteria

a) Important decomposers b) Forms blooms in polluted water c) Presence of prominent pigment d) Completely lack cell wall

15. Induce parthenocarpy by the application of a) IAA b) Ethylene d) Oxytocin e) GA

16. Sunken stomata are seen in a) Xerophytes b) Halophytes c) Hydrophytes d) Paracites

17. The protein coat of virus is.... a) Plasmid b) Plastid c) Basidium d) Capsid

18. Name the stain used for chromosomes. a) Safranin b) Acetocarmine c) Crystal violet d) Iodine

19. Aedes Sp. of mosquito deposits eggs in... a) moist soil b) flowing water c) stagnant water d) salt water

20. The plasma protein involved in blood coagulation a) Albumin b) Globulin c) Protamine d) Fibrinogen

21. The light reaction in photosynthesis is called a) TCA Cycle b) Calvin Cycle c) Hill reaction d) All above

22. Haploid plants can be obtained from a) anther culture b) leaf culture c) bud culture d) root culture

Section IV Questions from Introductory Topics of UG

(8)

23. Phycology is the study of a) algae b) fungi c) microbes d) phanerogams

24. Father of taxonomy is a) Theophrastus b) Grigor Mendel c) Linnaeus d) Aristotle

25. Salvinia is a a) Bryophyte b) Pteridophyte c) Gymnosperm d) Angiosperm

26. Naked seeds are present in a) Angiosperms b) Monocots c) Gymnosperms d) Bryophytes

27. Which has greater atomic radii. a) F b) Cl c) Br d) I

28. Compound eyes are seen in which phylum a) Coelenterata b) Annelida c) Arthropoda d) Aschelminthes

29. Which is a primary standard substance? KMnO_4 b) NaOH c) Na_2CO_3 d) HCl


30. is an organic pesticide a) Neem b) Endosulfan c) Vermicompost d) Copper sulphate

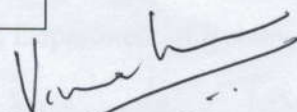
Name:

Signature

BSc Botany 2019-2020
Bridge Course Score sheet

Sl No	Name	Mark (out of 60)
1.	Adhithya Madhavan K S	30
2.	Akarsh Tenny	42
3.	Aleena A Jose	36
4.	Aleena Davis	48
5.	Aleena Tharakan	40
6.	Alma Rose	42
7.	Alma rose Sabu M	38
8.	Alwin George	24
9.	Anju George	34
10.	Anugraha Joshy	40
11.	Aparna C K	54
12.	Aparna T V	44
13.	Athira V S	52
14.	Chithira N K	36
15.	Ciya Rose Joshy	52
16.	Deepak M S	24
17.	Jeevan Thomas	42
18.	Jismila K J	26
19.	Jshnupriya A	36
20.	Jwala N J	46
21.	Lincy P K	38
22.	Lizma Saju B	36
23.	Merin C M	36
24.	Minnu Simon	22
25.	Nikhil	34
26.	Pavan C Kamal	36
27.	Prince K D	30
28.	Rahul Ravi	50
29.	Reshmi KV	34
30.	Sandra Selin P S	32
31.	Sandra Shaju	34
32.	Selin Sunny	44
33.	Sneha E R	34
34.	Uthara C A	20


Class Charge


HOD, Department of Botany
Vimala Jose

BSc Botany 2019-2020
Bridge Course Score sheet

List of Advanced Learners

- 1 Aparna C K
- 2 Athira V S
- 3 Ciya Rose Joshy
- 4 Rahul Ravi
- 5 Aleena Davis

List of Average Learners

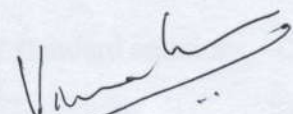
- 1 Jwala N. J.
- 2 Selin Sunny
- 3 Aparna T. V.
- 4 Alma Rose
- 5 Akarsh Tenny
- 6 Jeevan Thomas
- 7 Aleena Tharakan
- 8 Anugraha Joshy
- 9 Alma rose Sabu M.
- 10 Lincy P. K.
- 11 Pavan C. Kamal
- 12 Merin C. M.
- 13 Chithira N. K.
- 14 Lizma Saju B.
- 15 Jshnupriya A.
- 16 Aleena A. Jose

List of Slow Learners

- 1 Reshmi K. V.
- 2 Sneha E. R.
- 3 Sandra Shaju
- 4 Nikhil
- 5 Anju George
- 6 Sandra Selin P. S.
- 7 Prince K. D.
- 8 Adhithya Madhavan K. S.
- 9 Jismila K. J.
- 10 Deepak M. S.
- 11 Alwin George
- 12 Minnu Simon
- 13 Uthara C. A.



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