BIO 105 (BIOLOGICAL TECHNIQUES)

Past question

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B10 105

DEPARTMENT OF PLANT SCIENCE AND BIOTECHNOLOGY RUS SESSIONS: 2018-2020 SESSIONS LIKELY QUESTIONS

Course Code: Biological techniques:	QUESTIONS
Instruction: Attempt all questions	Time allowed: 1 hours
Part A	DSIGH824018
1. Mention the seven main points to be iiiiiiiv	
Four details that should be note iiiiiiiv 3. Preserved plant specimen provides us with in	d in field notebook should include
	which of the staining is commonly used
	to be recorded during collection include
What is the main function of herbarium/h	
evident in form of that will Plant collection are made by	
Four equipment to be considered when	planning for plant specimen collection include
i ii vi vi	
. After collecting and pressing plant speci	
When plant specimen are ready for storage In viewing of microscope, we taken iiiiiiiiiiiiiii	that are there precautions to iv
One important information that is very es	sential during plans to embark on plant specim
collection is Five important materials needed or requir	ed when going for plant specimen collection

ii iv v
15. How is mounting of plant specimen done
16. Mention 5 parts of microscope and their uses
PART B
17. Two things to be viewed in a microscope using dry mount include i (
while one thing to be viewed using wet mount is
18. The amount of oxygen used up during biological organism demand can be measured in
19. Differentiate between primary data and secondary data
20. Mention three types of food chain i ii iii
21. Four tools for collection of wild- life animals are
iiiiv
22. A fast moving insect can be captured using and techniques
23. Four factors that determine the sampling method are
iiiiv
24. Which type of sampling method should be applied where a larger sampling is broken or
divided into units make the job easy
25. Three limitations recapturing method/technique include ii
26. Define (i)Alkalinity (ii) Benthic Organism
27. The three popular techniques in hydro-biology techniques is collection of specimens
i <u>ii</u> iii
28. Transparency of water can be measured using i ii
the preservation of research
i <u>ii</u>
30. Solid that dissolve or suspended in water column can be determined by
31. Mention two sampling method you know i ii
32. Mention five types of sampling method i ii iii
33. The two convex lens that magnifies image are called and
34. Name two types of microscope and two types of culture media
i ii iii iv

SOLUTIONS TO BIO 105 BIOLOGICAL TECHNIQUES

PART A 2018-2020 SESSIONS

(1) (1) planning (i) pressing (ii) Drying (v) poisoning (v) storing wil labeling (vil) mounting

(2) ci Data (ii) Number of plants (iii) serial number or collectors name, years No (w) Name of plants

(3) plant diversity and distribution

(4) To view clearly all the internal Features of an organism; differential stowning

(5) (i) where and when it was collected (11) habitat of the plant (111) Flower colour, scent and size (iv) Habitat characteristic such as soil type

(6) Herbarum | herbaria act as a store (5) either by glewing houses to sought for data for a partit cular plant and also ensure the availability of plants For Future research. (16)

(7) plant specimen voucher

(8) Botanist scientist

(9) (1) collectory pick For digging up roots and thizomes of horbaceous plants

(ii) A strong knife and cutlass for cutting branches and other plant parts

(111) Apair of prenning shears or secotems For cutting woody and hard materials

(w) scanning objective lense

(10) Removal of all moisture from the plant by drying

(11) A wooden or steel almirahsfor safe deposit and Feature record

(12) (il clean your lense with lense cleanser paper

(ii) avoid vibra han on the surface of view of the microscope (iii) The microscope = harryd be

place on a flat surface

(iv) keep your both eyes open

(13) Get the available maps and collect local information concerning The plant specimen

(14)(1) polyetherie or collecting (il camera & Films (111) Field press, Folder or absorbant tissue paper (iv) Field note book (v) A pair of Forceps of flower buds study the speamen or by stiching

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ELITE MEGIA 26801 Askalenily 115 the am PART B it) d) wings of insect out it out required to Superada the base from the III Feather wat mount: onion bulb in Bunthic organisms organisms (18) Oxymater that live at the bottom that unerried stream back (19) primary data is atype of data that you collect by yoursal fullia secondary data is the data that CH " BINGUAL TECHNIQUE has been gamered by other (i) they sical technique people as a result of others (111) chemical rechnique sese arch kept in view (28) (1) photo alectric cells (20)(i) Grazing Food chain (ii) south disc (ii) parasitic Fordchain (2910) use of barter from (w) Debritus Fund chain (i) use of Driff Fence and (21) (1) Net (1) Aspirators Pit-Fall as burrier (in) steal fromal (iv) Forceps (30) Evaporation (22) mark and recapture Enjprobability sampling techniques method ii) Hon-palability (23 lipopulation size in population characteristics method (32) (1) Crusus empling method ii) a sampling unit (ii) simple random samples iv) Terrain to perform the method (w) stratified sampling Sumpling EA clanster sampling method methy d (in systematic sampling (251 (il one can sustain injury for running clauster, method around to get the animal (iil copturing the animal (33) objective lens occular less can lead to injuring the MOTE: Objective lens magnifies m animals hence, their and sent it to the occular leng behavious Canimals beh-For further magnification avism) can change 8418/1 Light & Election (IV) There are some animals microscope you cannot catch unless with gun and cut lass or BI culture media are (i) Broth - 119 mid Form

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