



NAVVRACHANA UNIVERSITY
a UGC recognized University

School: School of Science
Program/s: BSc.-LS
Year: 1st **Semester:** 1st
Examination: End Semester Examination
Examination year: December - 2022

Course LS177, **Course Name:** Living world and diversity

Code:

Date: 2/12/2022

Time: 8.30 am to 10.30 am

Total 40

Marks:

Total Pages: 02

Instructions:

- ➔ Read the questions carefully and write to the point
- ➔ Write answers in your own words depending on the weightage of the questions
- ➔ Draw labelled diagram wherever necessary

| Q. No. | Details | Marks | COs* | BTL# |
|--------|---|---------|--------------------|---------------|
| Q.1 | <p>Do as Directed</p> <ol style="list-style-type: none"> Name the fungi which is unicellular in nature. Which group of plant is referred to as amphibians of plant kingdom? Justify your answer. Why archea bacteria can also live in extreme conditions? Deuteromycetes are called imperfect fungi, why? Define karyogamy. Pteridophytes are known as seedless vascular plants. State true or false with justification. What is metamerism? Prothallus gives rise to sporophyte without fertilization. This is known as a) apogamy b) parthenocarpy c) parthenogenesis d) apospory Name any two disease causing protozoan? What is alternation of generation? The transport of male gametes in bryophytes and pteridophytes occurs through a) Wind b) Water c) Birds d) Insects What is the role of each organism responsible for the mutualistic relationship in lichens? Pteridophytes differ from mosses in a) Independent gametophyte b) Dependent gametophyte | 1x16=16 | CO1, CO2, CO3, CO4 | BT1, BT2, BT3 |

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|------------|---|--------|--|---|
| | <p>c) Independent and dominant sporophyte d) Flagellate antherozoids</p> <p>14. State function of choanocytes. 15. Vector for leishmaniasis is _____. 16. Which cnideria has capacity of regeneration?</p> | | | |
| Q.2 | <p>Answer the following in brief (Any eight)</p> <ol style="list-style-type: none"> 1. What advantages does the five-kingdom classification have over the two-kingdom classification? 2. What is the role of fungi our daily lives? 3. Are viruses living or non-living? 4. The common name of pea is simpler than its botanical (scientific) name <i>Pisum sativum</i>. Why then is the simpler common name not used instead of the complex scientific/botanical name in biology? 5. Fungi should not be included in Kingdom Plantae. Justify the statement. 6. Why algae is devoid of vascular system? 7. State 4 points on significance of coral reefs. 8. What is the role of nematocyst? 9. What is a notochord? Give 2 examples of organisms possessing notochord. 10. Give the main characteristics of gymnosperms. | 2x8=16 | | <p>CO1, CO2, CO3, CO4</p> <p>BT1, BT2, BT3</p> |
| Q.3 | <p>Answer the following in detail (Any two)</p> <ol style="list-style-type: none"> 1. Explain what is coelom and different types of coelom with examples? 2. Why angiosperms and mammals are considered as most successful & dominant organisms today? 3. According to you, what are the major changes plants and animals had to adapt to survive on terrestrial land? | 2x4=8 | | <p>CO2</p> <p>BT3, BT4</p> |

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