

Total Pages : 3

B.Sc./6th Sem/BOT/26(NEP)

2026

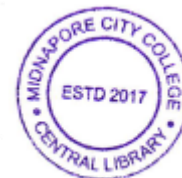
6th Semester Examination (CCFUP : NEP)

BOTANY

Paper : MJ 13-T

(Single Core Major)

[Bioprospecting and
Natural Resource Management]



Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *five* questions : $2 \times 5 = 10$

1. Define bioprospecting. How does it differ from biopiracy? 1+1
2. What are meant by genetic resources?
3. What is meant by MTT assay?
4. Name two notable antibiotics with their sources.
5. What are marine planktons? Mention two industrially important compounds derived from them.
6. Write down the full forms of CBD and NBA.

P.T.O.

VN-6/31 - 700



(2)

7. Mention two examples of non-wood forest products (NWFPs).
8. Write the scientific name of two medicinal plants and their uses.

Group - B

Answer any *four* questions : $5 \times 4 = 20$

9. Discuss the current practices of bioprospecting for biodiversity conservation. $3+2$
10. Explain the different fields of bioprospecting with suitable examples.
11. Write a short note on SRB assay.
12. Explain the principle and applications of antioxidant assays in bioprospecting. $3+2$
13. How are marine yeasts isolated? Write their industrial applications. $3+2$
14. Discuss the isolation of microbial metabolites and their bioactivity. $2+3$

Group - C

Answer any *one* question : $10 \times 1 = 10$

15. Describe in detail the pharmaceutical bioprospecting, including different assays used for screening plant-derived compounds. 10

(3)

16. Mention the origin, cultivation and uses of the following economic plants :

sugarcane, jute and mustard

$4+3+3$

