2018

BOTANY

BOT: 403

ANGIOSPERM TAXONOMY - III

Total Marks: 80
Time: 3 Hours

The figures in the margin indicates full marksfor the questions:

- Q1). Choose the Correct answer for the following Multiple Choice questions

 1×4=4

 (i) Diversity of the habitats over the total land scape or geographical area is called:

 (a) Alpha diversity
 (c) Beta diversity
- (ii) Which is false about Asteraceae?
 - (a) Cypsela fruit

(b) Gemma diversity

(c) Syngenesious androcium

(d) All of these

- (b) Head inflorescence
- (d) Hypogynous inflorescence
- (iii) Which is wrong about Solanaceae?
 - (a) Swollen axile placentation
 - (b) Monocarpellary superior ovary
 - (c) Bicarpellary superior ovary
 - (d) Epipetalous stamen
- (iv) The continental drift theory was first proposed by:
 - (a) Wegener (1915)
- (c) Du Toit (1937)

(b) Willis (1922)

- (d) Hooker (1817)
- Q2). Answer the very short type questions (Any Six) $(2\times6=12)$
 - a. What is alien species? Give two specific examples.b. Write the diagnostic characters of family Lamiaceae.
 - c. Mention any two differences between Poaceae and Cyperaceae.

- d. What is virtual herbarium? Mention its significance.
- e. Write the major aim and objectives of phytogepgraphy.
- f. Define vicariance. Give an example.
- g. What is sympatric and allopatric species? Give specific example.
- Q3). Write a short note on Any five of the following $(5 \times 5 = 25)$
 - a. IUCN Red list
 - b. Continental drift Theory
 - c. Salient features of family Poaceae
 - d. Indian Centre of Origin
 - e. Activities of BSI
 - f. Primitive Angiosperms
- Q4). Answer the following questions (Any three) $(3 \times 9=27)$
 - a. Briefly discuss the phylogeny and floral evolution of Ranales. (9)
 - b. Give a brief account on the different forest types prevailing in Assam.

 (9)
 - c. Define Herbaria. Discuss the role of Herbaria in plant taxonomical study. (2+7=9)
 - d. What is phytochoria? Discuss the phytochoria classified by different authors. (1+8=9)
- Q5). Answer the following questions (Any one) $(1\times12=12)$
 - a. Write an essay on diagnostic features of family Orchidaceae. Briefly discuss the phylogeny and floral evolution of Orchidaceae.

(6+6=12)

b. Give a general account on different types of Botanical provinces of India. (12)

