Total No. of Questions: 11]

[Total No. of Printed Pages : 3

BPP-1101

M.Sc. (Previous) Examination, 2022 BIOTECHNOLOGY

Paper - II

(Cell Biology and Biophysics)

Time: 3 Hours [Maximum Marks: 75

Section-A (Marks: $2 \times 10 = 20$)

Note: Answer all ten questions (Answer limit 50 words). Each question carries 2 marks.

Section–B (Marks : $5 \times 5 = 25$)

Note: Answer all five questions. Each question has internal choice (Answer limit200 words). Each question carries 5 marks.

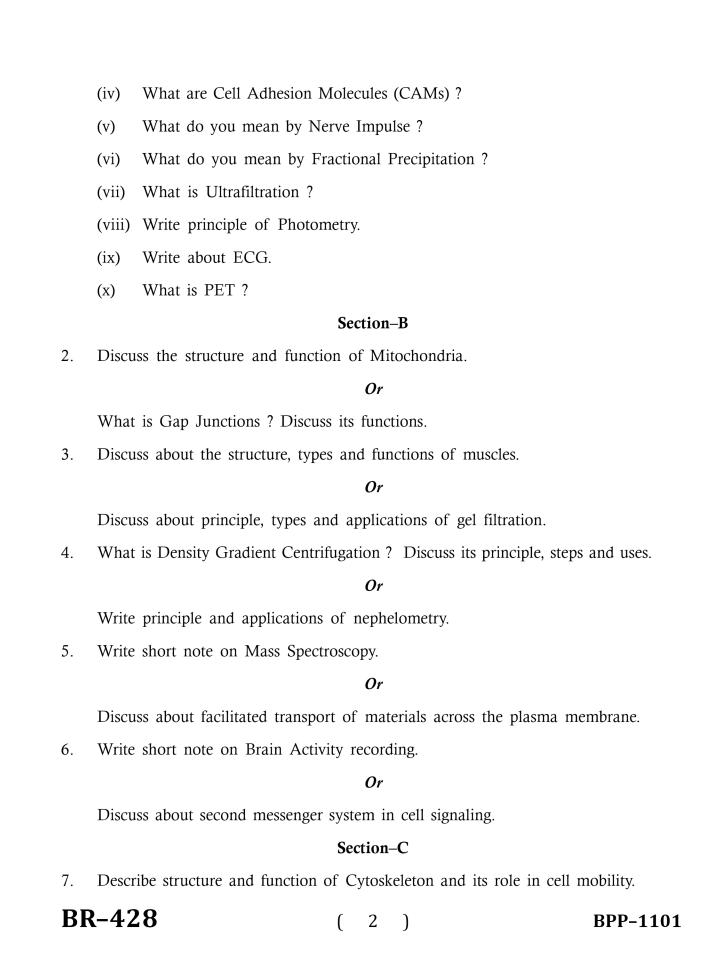
Section–C (Marks: $10 \times 3 = 30$)

Note: Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section-A

- 1. (i) What are Peroxisomes?
 - (ii) What is G_1 and G_2 Phase?
 - (iii) What are Integrins?

BR-428 (1) BPP-1101 P.T.O.



- 8. Write notes on the following:
 - (i) Attractive Forces in molecular interactions
 - (ii) Microcalorimetry
- 9. Describe principle, working and applications of HPLC.
- 10. Discuss about principles, working and applications of IR and NMR spectroscopy.
- 11. Write notes on the following:
 - (i) Biosensors
 - (ii) Biochips