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Department of Food Technology
School of Interdisciplinary Sciences and Technology
Jamia Hamdard, New Delhi – 110062

M.Sc. Nutrition and Dietetics

End Term Examination, Semester- III, December, 2024

Paper Title: Nutritional biochemistry-II; Paper Code: MDNCC-302

M.Sc.
3rd Sem
2024

Duration: 3 Hours

Max Marks: 60

Note: write to the point, please make sure you have mentioned question no. before answering

SECTION-A

Q. no- I. Attempt any five from the following questions:

(5 marks each; 2X5=10 marks)

1)	What are Okazaki pieces?	CO-2,3 PO-2,3
2)	What is Gene amplification?	CO-2,3PO-2,3
3)	What is hemosiderosis?	CO-1PO-2,3
4)	What do you understand by base excision repair and mismatch repair?	CO-2 PO-2,3
5)	Give an outline of post transcriptional modifications of RNA	CO-3 PO-2,3
6)	What is Lesch –Nyhan syndrome?	CO-2,3 PO-2,3

SECTION-B

Q. no-II. Attempt any five of the following questions:

(5 marks each; 5X5=25 marks)

1)	Explain Adsorption column chromatography.	CO-4, PO-1,2,3
2)	Explain Initiation and elongation in translation.	CO-2,3 PO-2,3
3)	Explain structure of DNA and RNA with diagram.	CO-2,3 PO-2,3
4)	Define Electrophoresis. What are the different types of electrophoresis?.	CO-4, PO-1,2,3
5)	What are the major types of DNA damages. Explain also the major mechanism of DNA repair.	CO-3 PO-2,3
6)	Explain iron absorption and, transport and storage of iron. Give an overview of metabolism.	CO-1PO-2,3
7)	What is transcription? Explain transcription in prokaryotes.	CO-2,3 PO-2,3
8)	Explain Replication of DNA in prokaryotes.	CO-3 PO-2,3

SECTION-C

Q. no- III. Choose any two of the following questions:

(12 marks each; 12X2=24)

1)	Explain Replication of DNA in eukaryotes.	CO-3 PO-2,3
2)	Explain protein biosynthesis.	CO-3 PO-1,2,3
3)	What is chromatography? Give an account on various methods of chromatography?	CO-4, PO-1,2,3
4)	How purine synthesis is carried out? Explain metabolic pathway with cycle?	CO-1PO-2,3