

QP Code:103114

Reg. No.:.....

**PG Degree Supplementary Examinations in Physiology (MD)  
December 2020**

**Paper III - Physiological Chemistry, Biophysics and Radiation Biology**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essay:**

**(20)**

1. Describe the importance of genomics and proteomics in the study of physiological processes. State the principle of two techniques for such studies.

**Short essays:**

**(8x10=80)**

2. Electro magnetoencephalography.
3. Thermal effects of electromagnetic waves.
4. Microwaves as lesion makers.
5. Peroxisomes.
6. Tumour suppression genes.
7. Regulation of Na<sup>+</sup>/K<sup>+</sup>-ATPase activity.
8. Sarco-endoplasmic reticulum calcium ATPase
9. Oncotic pressure

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