PG/IS/PHY/106/24

M.Sc. 1st Semester Examination, 2024

HUMAN PHYSIOLOGY

PAPER — PHY-106

Full Marks : 25

Time : 1 hour

Answer **all** questions

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

GROUP—A

Answer any **two** questions of the following : 2×2

1. What do you mean by VLSI and ULSI ? $1 + 1$

2. What is computational biology ? 2

3. State the functions of operating system.   2

4. What is hybrid computer ? Give example.
$$1 + 1$$

GROUP—B

Answer any **two** questions form the following :
$$4 \times 2$$

5. (*a*) Subtract the binary number $(100111)_2$ from $(111001)_2$.

   (*b*) $(69)_{10} = (?)_2$ $2 + 2$

6. State the main features of third-generation computer. Write the difference between interpreter and compiler. $2 + 2$

7. State different languages used in bioinformatics.   4

8. Discuss the role of 'Charles Babbage' engine in the development of computer.   4

(*Continued*)

(3)

GROUP – C

Answer any **one** question from the following :

8×1

9. Explain FOR-NEXT loop with example. What is nested FOR-NEXT loop ? Write a computer program to find the cardiac output from heart rate and stroke volume of 12 persons. $3 + 1 + 4$

10. How do you change the column height and row width in MS-Excel ? Describe the steps to draw a pie diagram with the help of MS-Excel. How do you print the text in a document of MS Word in the following case : Page 3-6. $3 + 3 + 2$

[Internal Assessment — 5 Marks]

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