

2025

M.Sc. 1st Semester Examination

HUMAN PHYSIOLOGY

Paper : PHYC404X0

[Computer Application in Biology
and Bioinformatics]

Full Marks : 25

Time : One Hour

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *two* questions :

2×2=4

1. What is string variable? Give example.
2. Mention different types of MS-PowerPoint view.
3. What is 'Omic' data?
4. What is active cell in MS-Excel?

P.T.O.

(2)

Group - B

Answer any *two* questions : 4×2=8

5. Convert the decimal number 43 into its binary equivalent.
What is Hexadecimal number system? 2+2

6. (i) $(11001)_2 - (10011)_2 = ?$

(ii) Correct the error, if any :

$$x = D5 + N\$$$

20 IF A > 10, GOTO 60 2+2

7. Write brief notes on the following :

(i) "MAX" function in MS Excel

(ii) Nested FOR-NEXT loop 2+2

8. Write a note on 'FASTA'. 4

Group - C

Answer any *one* question : 8×1=8

9. (i) State the difference between INPUT and READ statements in Basic Programming.

(ii) Write the difference between compiler and interpreter.

(iii) Write a computer program to find the lowest value of weight among 20 students. 2+2+4

(3)

10. (i) Write the goals of bioinformatics.
- (ii) Write how bioinformatics is used in the field of :
- (a) gene expression
 - (b) protein structure 3+(2+3)

Internal Assessment : 5 marks
