

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)BSc DEGREE EXAMINATION DECEMBER 2025
(Fifth Semester)

Branch – ZOOLOGY

COMPUTER APPLICATIONS IN BIOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Which device allows you to input data and instructions into a computer a) Input device b) Output device c) ALU d) Software	K1	CO1
	2	Show which tool bar allows users to change the appearance and arrangement of text quickly a) Status Bar b) Formatting Bar c) Menu bar d) Title Bar	K2	CO2
2	3	How many columns are in Excel? a) 17,435 b) 14, 567 c) 16,384 d) 13,234	K1	CO1
	4	Show which function is used to calculate the average value in a give range of cells a) SUM() b) MAX() c) AVERAGE() d) COUNT()	K2	CO2
3	5	Who invented PowerPoint a) Alan b) Steve Jobs c) Robert Gaskins and Dennis Austin d) Bill Gates	K1	CO1
	6	Infer which view in MS Access is used to create a new table by defining fields and data types? a) Datasheet view b) Design view b)Report view d) Form view	K2	CO2
4	7	Which company launched Photoshop? a)Adobe b) Aldus c) EULA d) Microsoft	K1	CO1
	8	Relate which of the following is not a search engine? a)Bing b) Google c) Yahoo d) Windows	K2	CO2
5	9	Which of the following is not a sequence alignment tool? a)BLAST b) FASTA c) CLUSTAL d) RASMOL	K1	CO1
	10	Infer: Which of the following is a data bank exclusively for proteins a) EMBL b) GEN BANK c) DDBJ d) PDB	K2	CO2

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Illustrate the basic structure of a computer.	K3	CO3

Cont...

	(OR)			
	11.b.	Develop a detailed description of the key features and functions of Microsoft word.		
2	12.a.	Classify the main features and functions of Microsoft Excel.	K4	CO4
	(OR)			
	12.b.	List out the different types of charts available in MS-Excel and Explain.		
3	13.a.	Build a detailed explanation of how to design and format slide in MS-PowerPoint.	K3	CO3
	(OR)			
	13.b.	Organize your ideas to explain the steps involved in creating and managing tables in MS-Access.		
4	14.a.	Classify the tools used in Photoshop for resizing, color adjustments, and cropping images.	K4	CO4
	(OR)			
	14.b.	List out the different types of web browsers and explain their unique features.		
5	15.a.	Explain about DDBJ in storing and providing access to nucleotide sequence data.	K5	CO5
	(OR)			
	15.b.	Determine how to retrieve nucleotide and protein sequence from NCBI.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Analyze the different input and output storage devices and their functions.	K4	CO4
2	17	Determine the steps to perform basic statistical analysis in MS Excel, including calculating mean, median, mode, standard deviation and create chart to represent data.	K4	CO4
3	18	Examine the different slide layouts and animation features in PowerPoint.	K4	CO4
4	19	Explain in detail about the web search engines.	K5	CO5
5	20	Compare NCBI, EMBL and BLAST in terms of their functions, features and applications.	K5	CO5

Z-Z-Z END