KV NTPC KANIHA

AUTUMN BREAK HOME WORK (2026–27)

CLASS · 11 | SUBJECT · BIOLOGY

Q1. Half-Yearly Sample Question Paper

Solve the half-yearly sample question paper (shared by me) in your **Biology homework notebook.**

Q2. Graded Worksheet and Case-Based Questions

Solve the graded worksheet and case-based questions (shared by the teacher) from the chapter "Biomolecules" **in your Biology homework notebook.**

Q3. In-Text Questions and Exercises

Write the answers to all in-text questions and exercises of the chapter "Biomolecules" **in your Biology homework notebook.**

Q4. Short Notes

Complete the short notes of the chapter "Biomolecules" and " Cell Cycle and Cell Division " in your **Biology classwork notebook.**

Q5. Biology Investigatory Project

Select a suitable topic for a Biology investigatory project and complete it on A4 sheets (as per shared format) in a separate file.

NOTE

Complete all pending work (HW/CW) in your homework assignment/classwork notebooks and submit it for correction on **26/10/2026.**

केंद्रीय विद्यालय संगठन

KENDRIYA VIDYALAYA SANGATHAN

अर्द्धवार्षिक परीक्षा -2026-27

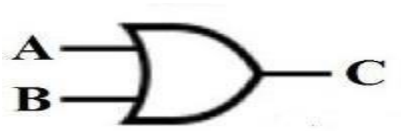
HALF YEARLY EXAMINATION – 2026-27

कक्षा /Class: XI **विषय / Subject: Computer Science (083)**

Maximum SMarks: 70 समय / **Time Allowed: 3 Hours**

General Instructions:

- This question paper contains five sections, Section A to E.
- All questions are compulsory.
- Section A has 18 questions carrying 01 mark each.
- Section B has 07 Very Short Answer type questions carrying 02 marks each.
- Section C has 05 Short Answer type questions carrying 03 marks each.
- Section D has 02 Long Answer type questions carrying 04 marks each.
- Section E has 03 questions carrying 05 marks each.
- All programming questions are to be answered using Python Language only.

Q. No.	**Section A**	
1.	Which of these software is a System Software? a. Microsoft PowerPoint b. Microsoft Excel c. Compiler d. Adobe reader	1
2.	Fill missing word in – American Standard.....for Information Interchange (a) Coding (b) Code (c) Character (d)None of These	1
3.	Identify the Output of: -  (a) A+B =C (b) C= AB (c) C= A+B (d) C = A / B	1
4.	What will be the output of the following Python code :- a = 11 b = 3 z= a//b print(z) (a) 3 (b) 3.0 (c) 3.66 (d) 4	1
5.	Identify the Application Software: - (a) Assembler (b) Edge (c) Compiler (d) Python	1
6.	Choose Operating System :- a. McAfee Antivirus (b) Spreadsheet c. Android (d) Google Chrome	1

7.	Which of the following is not a valid GATE in Boolean algebra: - (a) AND (b) NAND (C) OR (d) SUB	1
8.	Which of the following is a valid variable name in Python?? (a) 1_number (b) number# (c) number_1 (d) 1@number	1
9.	Output of the following statements will be :- S = 'KV' Y = 'Udr' print(S*2 + Y*2) a. KVKVUDRUDR b. KVUDRKVUDR c. KV UDR d. KVUDR	1
10.	Select the python built-in function to know the data type of a variable? a. id() b. datatype() c. type() d. ref()	1
11.	Pictorial representation of a program is known as: a. Flowchart b. Algorithm c. Coding d. None of these	1
12.	Which of the followings is an invalid relational operator in python? a. != b. == c. >= d.=	1
13.	For multiline strings we use: - a. Single quote b. Double Quote c. Triple Quote d. None of the above	1
14.	Select the jump statement which is used to stop the loop : - (a) exit (b) b r e a k (c) stop (d) continue	1
15.	How many times does the loop in the following code will get executed? x=1 while(x<7): x=x+1 print(x) a. 6 b. 7 c. 5 d. infinite	1
16.	If s= 'Middleeast', then what will be the output of s [: : 2] a. Mdet b. Mdles c. Mddee d. None of the above	1

Given below are two statements for Question 17 and 18, one labelled as Assertion (A) and the other labelled as Reason (R):

In the context of the two statements (A and R), which of the following is correct for each question?

a. Both(A) and (R) are true and (R) is a correct explanation of Assertion
b. Both (A) and (R) are true, but (R) is not the explanation of Assertion
c. A is True but R is False
d. A is false but R is True

You will write answers A or B or C or D

17.	Assertion (A): Comments in the python start with the hash character, #, and extend to the end of the physical line Reason (R): Comments are interpreted and shown on the output screen.	1
18.	Assertion (A) : Python is Open source Programming Language Reason (R): We can download python software free.	1
	Section B	
19.	Draw logic circuit for following expression: (P+Q)'. (Q'+R)	2
20.	Rewrite the following code after removing the error(s) and underline the corrections made: num = input("Enter a number: ") If num % 2 = 0: Print(num," is Even") Else print(num," is Odd")	2
21.	What are the functions of operating systems? OR Write the Output of following Statements: - (i) >>> 10 - 20 // 4 % 3 >>> print('RAJ' ** 2)	2
22.	Identify the data types of the values given below: '555', {1:'One', 2:'two'}, [1,2,3], (1,2,3) **OR** What do you mean by Keyword? Give two examples of keyword?	2
23.	What do you understand by term immutable? Explain with an example?	2
24.	Write a program to convert temperature from degree Celsius to Fahrenheit. Formula is (F = Temp x 9÷5) + 32	2
25.	Draw a flowchart to find a maximum or equal out of two numbers.	2
	Section C	
26.	Convert the following: (i) $BEA4_{16}$ = (?)$_2$ (ii) $(95)_{10}$ = (?)$_8$ (iii) $(110110)_{16}$ = (?) $_{10}$	3
27.	Write a python program calculate area of a circle (Note value of pi must be used from math library)	3
28.	Write down the output produced by the following statements? a. 5>5 OR 6>=6 b. 3 ** 3 c. 15 // 4 % 7	3

29.	What will be the output of following code: x, y = 8, 4 x, y = y, x + 2 print(x,y)	3
30.	Given two lists L1 = ["this", "is", "a", "List"] L2 = ["this", ["is", "another"], "List"] Which of the following expressions will cause an error and why? Write the output if there is no error. L1 == L2 L1.upper()	3
	Section D	
31.	Differentiate between (1) RAM & ROM (2) Compiler & Interpreter	4
32.	(a) What is the purpose of of "in" operator used with string? (b) Write statement to reverse a string stored in a variable S using slicing? (c) if a="rajasthan". Then what will be the result of: (i) a.capitalize() (ii) a.startswith('ra')	4
	Section E	
33.	(a) Write Python script to print n terms of Fibonacci sequence – 0, 1, 1, 2, 3, 5,8.. (b) Write a program to find the reverse digits of a given integer number, input by the user For example if the input is 123 then Output is 321	2+3
34.	Write the output of the following statements: - If S = "indian" then output >>>print(S.upper()) >>>print(len(S) >>>print(S.title()) >>>print(S.startswith('nd')) >>>print(S.find('i'))	5
35.	(a) Write a python program to check whether a person is eligible for voting or not. (b) Write a Python program to check a number is Armstrong number or not. Eg. $153 = 1^3 + 5^3 + 3^3 = 153$	2+3

Do all miscellaneous questions of chapter 6-8