

	<p align="center">B.C.M SCHOOL BASANT AVENUE DUGRI ROAD, LUDHIANA ANSWER KEY OF ASSIGNMENT SUBJECT- SCIENCE DATE-SEPTEMBER 11,2024</p>
	MCQ
1	D. Bread mould
2	B. i(d) ii(a) iii(b) iv(c)
	ASSERTION REASON
3	(B) Both Assertion and Reason are the true but Reason is not a correct explanation of Assertion
4	(A) Both Assertion and Reason are the true and Reason is a correct explanation of Assertion.
	GIVE ANSWER OF THE FOLLOWING QUESTIONS
5	(a) Yeast causes fermentation converting sugar into alcohol (b) Carbon dioxide (c) Lime water turns milky
6	The calorific value of fuel is the amount of heat produced by the complete combustion of 1 kg of fuel. Now, Amount of fuel = 3.6 kg Amount of heat produced = 90,000 kJ Calorific value of the fuel = Amount of heat produced / Amount of fuel burnt = 90,000 / 3.6 = 25,000 kJ/kg
7	I. The nitrogen cycle is the recycling phase of the nitrogen which includes nitrogen fixation, ammonification, nitrification, and denitrification. ii. a) Nitrogen is fixed by lightening. (b) Blue-Green algae and nitrogen fixing bacteria fix the atmospheric nitrogen. (c) Due to death and excretion nitrogenous waste are released in the soil (d) Bacteria help compounds of nitrogen to transform into gaseous state (denitrification)
	CASE STUDY
8	i. No, Oil is lighter than water, when one will pour water on burning oil, It will settle down at the bottom of the vessel. ii. Yes, by doing this the contact between fuel and oxygen is cut off and flame will go off. iii. Pouring soil or sand may help to extinguish the fire, as they reduce the flow of air.