

<p style="text-align: center;">BCM SCHOOL, BASANT AVENUE, DUGRI ROAD, LUDHIANA CLASS – XI SUBJECT: BIOLOGY CHAPTER – 2: BIOLOGICAL CLASSIFICATION</p>	
1	a) R.H. Whittaker b) Mycoplasma c) Silica d) Algae and Fungi
2	a-ii, b-i, c-iv, d-iii
3	a) Both A & R true, R explains A
4	Cyanobacteria have chlorophyll like algae but are prokaryotic – no nucleus, no membrane-bound organelles. Hence placed in Monera, not Plantae.
5	Ascomycetes: Ascospores inside ascus. Ex: Yeast, Penicillium, Morels. Basidiomycetes: Basidiospores on basidium. Ex: Agaricus, Puccinia, Mushrooms.
6	Lichens do not grow in SO ₂ polluted areas. They are sensitive to pollution, especially SO ₂ . Hence used as pollution indicators
7	a) Rhizopus stolonifer, Kingdom Fungi b) Zygomycetes, Sporangiospores c) 1. Spoilage of food 2. Source of industrial alcohol/fumaric acid
8	a) Monera: Cholera by Vibrio cholerae/Typhoid by Salmonella. Protista: Malaria by Plasmodium b) Slime moulds are acellular, form plasmodium, and have saprophytic nutrition but lack cell wall in vegetative phase. Cell type is eukaryotic = Protista. c) Cell type: Monera is prokaryotic while Protista is eukaryotic.
9	Sample evaluation points: 1. All 5 kingdoms marked with correct features. Ex: Monera – prokaryotic, non-cellulosic wall. 2. Examples drawn: E.coli for Monera, Amoeba for Protista, Agaricus for Fungi, Mango for Plantae, Human for Animalia. 3. Correct color code + neat Warli/Kalamkari style + labels.