

CHAPTER – 10- MICROBES IN HUMAN WELFARE

WORK SHEET- MODULE 5/7

- 1) The main constituent of biogas is
 - a) Ethane b) Methane
 - c) Carbon dioxide d) Hydrogen sulphide
- 2) Which among the following cannot be used in biogas plant for production of biogas?
 - a) Food scrap b) poultry excreta
 - c) water used for rinsing vegetables d) kerosene
- 3) A blue gas stove flame colour indicate
 - i) complete combustion of fuel
 - ii) indicating you are wasting gas
 - iii) no money is wasted iv) the fuel has some impurities in it
 - a) Only (i) b) both (i) and (iii) c) (i), (ii) and (iii) d) (i), (ii) and (iv)
- 4) Methanobacteria
 - i) are seen in rumen of cattle
 - ii) are able to digest cellulose aerobically
 - iii) breakdown cellulose which play an important role in the nutrition of cattle.
 - iv) are also seen in large amount in dung of cattle, commonly called gobar.
 - a) (i), (ii), (iii) and (iv) b) (i), (iii) and (iv)
 - c) only (i) and (iv) d) only (iv)

- 5) In ruminants, cellulose digestion mainly occur in
- a) Stomach
 - b) mouth
 - c) rumen
 - d) large intestine
- 6) How is biogas plant designed to obtain maximum biogas? Suggest any idea to improve the design.
- 7) What is the use of slurry coming out of the outlet?
- 8) Draw the schematic diagram of a biogas plant and label all the components.
- 9) What are the uses of biogas?
- 10) Which are the two institutions develop the technology of biogas production in India?

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