DG-3141
Third Year B. Sc. (Sem. V) Examination
March/April – 2016
Microbiology (GE)
(Microbiology Laboratory Hazards and Precautions)
(New Course)

Time : Hours] [Total Marks : 50

Instructions :

(1)

Fill up strictly the details of signs on your answer book.

Name of the Examination:
Third Year B. Sc. (Micro) (Sem. V)
Name of the Subject:
Microbiology: GE (New)

(2) Figures to the right indicate full marks of the question.
(3) Draw neat and labelled diagram wherever necessary.

1 Give specific answers :
(a) State the commonest causes of infections in laboratory.
(b) State the safety features of class I and class II biological safety cabinet.
(c) Enlist two safe techniques for the use of pipettes and how pipetting procedure responsible for laboratory infection?
(d) State laboratory hazards due to explosive chemical. Give two examples of it.
(e) State the storage of compressed and liquified gases in the laboratory.
(f) Define Decontamination. Name two recommended decontaminants.

2 Explain / Comment on any two of the following :
(a) CDC has announced the universal precautions for laboratories.
(b) Toxic effects of chemicals is the paramount hazardous factor in the laboratory.
(c) Various safety techniques are suggested for avoiding, dispersol, ingestion and injection of infectious materials.
3 Attempt any two of the following:
(a) Discuss the various equipments designed to eliminate or reduce equipment hazard.
(b) Discuss the causes of fire in the laboratory and role of extinguishers used in such circumstances.
(c) What is the significance of the use of instruments? Discuss safe use of freezer, shaker, homogenizers, sonicators in detail.

4 Write short notes on any two of the following:
(a) Laboratory First Aid box.
(b) Common hazards in laboratory.
(c) Chemical spillage.