

Total Pages—4

C/14/M.Sc./4<sup>th</sup> Seme./BLM-402(U-28)

**M.Sc.**

**2014**

**4th Semester Examination**

**BIOMEDICAL LABORATORY SCIENCE AND MANAGEMENT**

**PAPER—BLM-402 (UNIT-28)**

*Full Marks : 40*

*Time : 2 Hours*

*The figures in the right-hand margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

**Answer all questions.**

**Module — 1**

**1. Answer any five questions of the following : 1×5**

(a) What do you mean by intelligence in information system ?

(b) Write the names of any two process for collection of health care information system.

*(Turn Over)*

- (c) Mention any one importance of health manpower statistics.
  - (d) Write the full forms of AWW and VHG.
  - (e) Define policy.
  - (f) Define record.
  - (g) Write any one objective of health planning in state level.
2. (a) State the main health care services provided by Primary health centre.
- (b) Describe in brief about health care services provided of village level. 4+4

*Or*

- (a) What do you mean by disease registration ?
  - (b) State the applied value of disease registration in health sector.
  - (c) Write the importance of hospital record in health care improvement. 2+3+3
3. (a) Describe the strategies adopted for improving the health care services in our community.
- (b) Mention the manpower strength in PHC as per standard guideline. 4+3

*Or*

- (a) Describe the major goals of 'National Health Policy'.  
(b) What do you mean by record linkage? 5+2

*Module — 2*

4. Answer any *five* questions of the following : 1×5

- (a) What is probe ?  
(b) Define metabolomics.  
(c) What do you mean by point mutation ?  
(d) What do you mean by data security ?  
(e) What do you mean by genetic information flow ?  
(f) Write any application of parasite bio-information.  
(g) Define genomics.

5. (a) What is gene sequencing ?  
(b) Describe the 'Maxam-Gilbert method' for gene sequencing.  
(c) State any two application of probe. 2+4+2

*Or*

- (a) 'Proteomics study generally prefer to evaluate the cellular activity than genomics study' — justify the statement.  
(b) State the importance of computer graphics in bio-informatics. 5+3

6. (a) Write the fundamental steps for the flow of nucleotide message from genetical compartment to the non-genetical compartment of the cell.
- (b) Describe in brief the genetical diagnosis about heterozygous and homozygous genotype of 'Sickle cell anaemia' using DNA electrophoresis. 3+4

*Or*

- (a) State the steps adopted for the formulation of Biological Data Bank from the view point of Bio-informatics.
- (b) Write in brief about parasite bio-informatics. 4+3
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