M.Sc. 4th Semester Examination, 2010

BIO-MEDICAL LABORATORY SCIENCE AND MANAGEMENT

(*Healthcare & Bio-Informatics*)

PAPER—XIV(U-28)

Full Marks : 40

Time : 2 hours

The figures in the right-hand margin indicate marks

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

Illustrate the answers wherever necessary

MODULE—1

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

   (*a*) What do you mean by planning ?

   (*b*) What do you mean by strategy ?

   (*c*) Write the full forms of VHG and AW.

(d) What do you mean by Social Vaccination ?

(e) Write with example the tertiary tier of our health service system.

(f) What do you mean by data bank about disease ?

(g) Write the full forms of NRHM and NFHS.

(h) Define a "fully" immunized child in time.

2. (a) What are the different tier systems in our health service system ?

(b) Describe about the primary tier of health service system in our country.

(c) Write the advancement in primary tier in last decade in our State.   2 + 4 + 2

Or

(a) Describe the different steps of planning cycle.

(b) State the pre-planning steps.

(c) Write the importance of monitoring for successful health programme implementation.

$4 + 2 + 2$

3. (a) Write the importance of woman to woman strategy for community health upgradation.

(b) Write the disease registration system.

(c) Write the importance of disease registrance system. $3 + 2 + 2$

Or

(a) Define HMIS.

(b) What are the objectives and challenges of web based HMIS under NRHM ?

(c) Describe data components of RIMS (Routine Immunisation Monitoring System). $1 + (2 + 2) + 2$

MODULE—2

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

   (a) What is Block ?

   (b) Write the full forms of NCBI and EBI.

   (c) What do you mean by consensus sequence ?

   (d) What is e-value ?

   (e) What is health informatics ?

   (f) State the basic difference between informatics and bio-informatics.

   (g) Why do we use chemfinder ?

   (h) What is lead compound ?

5. (a) Define bio-informatics.

   (b) Illustrate the application of bio-informatics in food, agriculture and pharmaceutical industries.   2 + 6

Or

(a) What is chemoinformatics ?

(b) State the application of chemoinformatics in drug design.

(c) Write a short note on SMILES. $2 + 4 + 2$

6. (a) What is database ?

(b) Classify and describe the database.

(c) What is the difference between Swiss Prot and TrEMBL. $1 + 4 + 2$

Or

(a) Write the full form of SIB.

(b) What is alignment ?

(c) Define affine gap penalty and gap penalty.

(d) What is BLAS ? State the types of BLAS. $1 + 2 + 2 + (1 + 1)$

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