



Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD (now MoE)

Re-accredited with 'A++' Grade by NAAC. CGPA 3.65/4, Category I by UGC

Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment Test I – February 2025

Semester-II

Class: I M.Sc.

Major: Bioinformatics

Time : 2 hrs

Max. Marks : 60

23MBII01 – Bioinformatics in Health

Course Outcomes:

After completing this course, the student will

CO1: Obtain basic knowledge of healthcare database and Health Information Technology

CO2: Understand the e-resources available and information retrieval from digital libraries

CO3: Explore to understand big data in health care and their applications.

CO4: Gain knowledge about personalised medicine and how it may be used to treat a variety of diseases.

CO5: Thoroughly understand the drug development process and the numerous factors that can be used in their research.

Part – A

6x1=6

Choose the correct answer

1. What is the main responsibility of Health Informatics professionals regarding information systems _____ (CO1, K2)

- a) Ensuring patient privacy compliance
- b) Providing direct patient care
- c) Designing information systems to meet stakeholder needs
- d) Developing communication technologies

2. What is the primary focus of Health Informatics according to the reference text _____ (CO1, K2)

- a) Healthcare facility management
- b) Acquisition, storage, and use of information in healthcare
- c) Development of medical devices
- d) Patient diagnosis and treatment

3. What are the primary responsibilities of Health Informatics professionals regarding health records _____ (CO3, K2)

- a) Creating personalized treatment plans for patients
- b) Developing new medical treatments based on patient records
- c) Ensuring patient confidentiality in health record management
- d) Storing, organizing, and analyzing health records for improved outcomes

4. Nikshay is the online database associated to monitor _____ (CO1, K3)

- a) Cancer
- b) HIV
- c) Diabetes
- d) Tuberculosis

5. The health portal available for retrieval of health information includes except _____ (CO2, K3)

- a) WHO
- b) CDC
- c) NIH
- d) NIS

6. An Integrated systems for managing administrative, financial, and clinical aspects of healthcare _____ (CO2, K2)

- a) HIS
- b) CDC
- c) NIH
- d) NIS

Part - B

3 x 6 = 18

Answer the following

Answer should not exceed 400 words or two pages

7. a. Describe the role and significance of Electronic Health Records. (CO1, K2)
Or
b. Write about the significance of information technology on health care functions. (CO1, K2)
8. a. Discuss data Health information retrieval from digital library. (CO2, K3)
Or
b. Elaborate on the management and dissemination of health knowledge. (CO2, K2)
9. a. Write about global organizations in health information technology. (CO2, K2)
Or
b. Explain the application of bioinformatics in health sector. (CO2, K2)

Part – C

Answer the following

Answer should not exceed 800 words or four pages

3 x 12 = 36

10. a. Elaborate on current status of Health Informatics in India. (CO1, K2)
Or
b. Describe the features and significance of telehealth/telemedicine. (CO2, K2)
11. a. Write about e-learning technology and its application in Health sciences. (CO2, K1)
Or
b. Illustrate the steps involved in processing medical images. (CO3, K3)
12. a. Explain in detail about text mining on complex biomedical literature. (CO3, K3)
Or
b. Distinguish the features of public databases in Health informatics. (CO1, K2)

Staff In charge: Mrs.S.Saraswathi

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