1805E683

Candidate's Seat No.

B.Sc. (Sem.-V) Examination 301 CC Health & Hygiene May-2017

Time: 3 Hours

[Max. Marks: 70

· HTH-301 Computational Science in Health

Q-1 Answer any two

14

- A. Write a short note on different operating systems.
- B. Explain the application of personal computers in home and offices.
- C. Describe the importance and uses of internet in detail.
- D. List various modules MS Office and discuss use of any one

Q-2 Answer any two

14

- A. Explain variance and standard deviation. For the following set of data for an antibiotic calculate the standard deviation and variance: 33,34,39,41,40,45,47.
- B. Write a short note on Central tendency. Calculate the mode from the following data

Age group	Positive effect of drug (%)
0-5	40
6-10	55
11-15	33

- C. Write a short note on Kaplan Meier curve.
- D. Write a short note on hypothesis testing.

Q-3 Answer any two

14

- A. Define gene sequencing. Enlist and explain in detail all the methods of gene sequencing.
- B. Write a short note on Blast.
- C. What is image analysis? Discuss the software used for image analysis.
- D. Discuss the importance of GPS and remote sensing in detail.

Q-4 Answer any two

14

- A. Discuss in detail the importance and application of SPSS.
- B. How is the computer system helpful in healthcare? Explain
- C. Discuss the application and advantages of robotic surgery in healthcare.
- D. Discuss the software used in administration.

Q-5. Answer the following questions

14

- 1. Write the full form of SPSS
- 2. What is the difference in local and global alignment
- 3. Write the fullform of jpeg.
- 4. What is null hypothesis?
- 5. Define p value.
- 6. Name the oldest method of sequencing.
- 7. Give the relation between standard deviation and variation.
- 8. Define operating system.
- 9. Write the function of keyboard keys.
- 10. What is CEPT?
- 11. What are the different parts of computer hardware?
- 12. Write the different types of printers.
- 13. Write an application of remote sensing.
- 14. Differentiate between airborne and platform sensor.

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Instructions: (1) All question carry equal marks.

(2) Draw neat and labelled diagrams wherever necessary.

Q-1. Answer the following (Any Two)

(1.1

- A. Write note on important medicinal and aromatic plants of India.
- B. Explain medicinal importance of Gymnosperms and Bryophytes plants
- C. Discuss medicinal use of Bacteria and fungi along with disease in India
- D. Explain policies for their conservation and sustainable use of medicinal plants.

Q-2 Answer the following (Any Two)

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- A. Describe physical and chemical properties of soil.
- B. Explain components and types of soil.
- C. Explain agro-climatic zones of India.
- D. Discuss soil fertility and productivity.

Q-3. Answer the following (Any Two)

(14)

- A. What is Hybridization? Define Inbreeding and Outbreeding.
- B. Describe role of human in the selection and production of new varieties of crops.
- C. What is mutational breeding? Describe spontaneous and induced mutation.
- D. Define mutagen and explain type mutagens.

Q-4. Answer the following (Any Two)

(14)

- A. Describe botanical name, family name, parts used and medicinal use of Ashok, Calihari and Neem.
- B. Describe common name, family name, parts used and medicinal use of Santalum album. Pepper longum and Asparagus racemosus.
- C. Describe therapeutic powers of Harida and Bahada
- D. Write uses of Henna and Amla.

Q-5. Answer in brief

(14)

- 1. List components that make a plant medicinally important
- 2. Give botanical name and use of Harida.
- 3. Give two examples of medicinally useful Algae.
- 4. Give botanical name and use of Madhunasini.
- 5. Mention uses of aromatic plants.
- 6. How to maintain soil fertility?
- 7. Give botanical name and use of Tulsi.
- 8. Name any two non-angiosperm medicinal plant.
- 9. What is pH of the fertile soil?
- 10. Give botanical name and use of Satavari.
- 11. What is loam?
- 12. Give botanical name and use of Vasa Bilva.
- 13. Name any two aromatic plants and its use.
- 14. Give botanical name and use of Guggul.