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SECOND SEMESTER M.Sc. CLINICAL PSYCHOLOGY/M.Sc. EXERCISE AND SPORTS SCIENCE/M.Sc. MRP/M.Sc. HHIA DEGREE EXAMINATION – JUNE 2015

SUBJECT: ADVANCED BIOSTATISTICS & RESEARCH METHODOLOGY / RESEARCH METHODOLOGY & BIOSTATISTICS / RESEARCH METHODOLOGY & BIOSTATISTICS (2011 SCHEME)/EPIDEMIOLOGY & BIOSTATISTICS (2013 SCHEME)

Monday, June 15, 2015

Time: 10:00 - 13:00 Hrs.

Max. Marks: 80

- Answer ALL the questions.
- 1A. Define standard deviation. Explain the computation with example.
- 1B. What is systematic sampling? Explain the procedure with an example. List the advantages and disadvantages of this technique.

(5+5 = 10 marks)

- 2A. Suppose the low-density lipoprotein (LDL) cholesterol level of women aged 30-40 years are approximately normally distributed with a mean of 130 mg/dL and a standard deviation of 6mg/dL. A woman has just come down for LDL test. What is the probability that the woman's LDL level is:
 - i) Between the ages of 124 and 136 mg/dL?
 - ii) Over 136 mg/dL?
- 2B. Write a short note on Poisson distribution.

(5+5 = 10 marks)

- 3. Define the following terms:
- 3A. i) Level of significance
 - ii) P-value
 - iii) Null and Alternative hypothesis
- 3B. Describe with example the situation in which you would use independent sample t-test. What is the null hypothesis tested? List the assumptions.

((1+2+2)+5 = 10 marks)

- 4A. Differentiate parametric and non-parametric tests. Explain the situation for Mann-Whitney U test.
- 4B. Explain with example the computation procedure of Chi-square test statistic.

(5+5 = 10 marks)

- 5A. A random sample of 80 adults of 50+ age group individuals from a population contained 20 subjects with hypertension. Construct 95% confidence interval for the population prevalence of hypertension. (Given Z 1-α/2=1.96).
- 5B. Write a short note on logistic regression.

(5+5 = 10 marks)

- 6. Discuss Randomized Controlled trial under:
- 6A. Basic Design
- 6B. Basic features
- 6C. Basic steps
- 6D. Merits and demerits

(10 marks)

7. Explain the use and structure of a research protocol.

(10 marks)

- 8. Write short notes on the following:
- 8A. Cohort study
- 8B. Sensitivity and specificity of a diagnostic test

(5+5 = 10 marks)

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SECOND SEMESTER M.Sc. H.H.I.A. / M.Sc. HI DEGREE EXAMINATION - JUNE 2015

SUBJECT: MEDICAL LANGUAGE – II (MHI 604/MIN 608)
(SPECIALIZATION: HEALTHCARE IT MANAGEMENT AND SOFTWARE DEVELOPMENT & MANAGEMENT)
(CBS-2013 SCHEME/2014 SCHEME)

Wednesday, June 17, 2015

Time:	10.00	13:00 Hrs.	

Max. Marks: 80

All questions are compulsory.

1	Write down	the correct	avalanation	for fo	llowing	medical	terms.
1.	write down	the correct	explanation	101.16	gmowing	medicai	ici ms.

- a) Palliative
- b) Zeusophobia
- c) Haze
- d) Immunity

- e) Lymphoma
- f) Carcinophobia
- g) Hallucination
- h) Polyphagia

- i) Claudication
- j) Cochlea

 $(1 \text{ marks} \times 10 = 10 \text{ marks})$

2. Write down the correct expansion for following abbreviations:

- a) BMD
- b) CVS
- c) EBV
- d) FRC
- e) HAV

- f) HDU
- g) INO
- h) LKM
- i) MIC
- j) OI

- k) PML
- l) SIRS
- m) TSH
- n) TPN
- o) BUN

 $(1 \text{ mark} \times 15 = 15 \text{ marks})$

3. Write short notes on:

- a) Radiotherapy
- b) Hodgkin's lymphoma
- c) Alkaptonuria

- d) Cerebral palsy
- e) Measles

f) Dysthymia

- g) Phimosis
- h) Pre eclampsia
- i) Multiple sclerosis

j) Tinnitus

 $(2\frac{1}{2} \text{ marks} \times 10 = 25 \text{ marks})$

4. Answer the following:

- 4A. Write down about the clinical features and complications of Ovarian cyst.
- 4B. Distinguish between different types of Schizophrenia.
- 4C. Give a brief account about etiology and clinical features of Syphilis.
- 4D. What is Tetrology of Fallot? Write down the important characteristic features of Tetrology of Fallot.
- 4E. Distinguish between the clinical features of Scurvy and Pellagra.

 $(6 \text{ marks} \times 5 = 30 \text{ marks})$

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MHI 604/MIN 608

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SECOND SEMESTER M.Sc. H.H.I.A. DEGREE EXAMINATION - JUNE 2015

SUBJECT: PHARMACOLOGY (MHI 602) (2013 SCHEME)

Friday, June 19, 2015

Time: 10:00 - 11:30 Hrs.

Max. Marks: 40

- 1. Describe the following terms with an example:
- 1A. Drug
- 1B. First pass metabolism
- 1C. Chemoprophylaxis

 $(2 \text{ marks} \times 3 = 6 \text{ marks})$

- 2. Mention two drugs belonging to following groups and list two uses of any one of them:
- 2A. Benzodiazepines
- 2B. Beta-2 agonists
- 2C. Fluoroquinolones
- 2D. Corticosteroids

 $(2 \text{ marks} \times 4 = 8 \text{ marks})$

- 3. List two uses of following drugs:
- 3A. Atropine
- 3B. Adrenaline
- 3C. Morphine
- 3D. Chloroquine
- 3E. Metoclopramide

 $(1 \text{ mark} \times 5 = 5 \text{ marks})$

- 4. Explain the mechanism of action of the following:
- 4A. Aspirin
- 4B. Omeprazole

 $(2 \text{ marks} \times 2 = 4 \text{ marks})$

- 5. Mention two drugs used in the following conditions and list two adverse effects of any one of them:
- 5A. Epilepsy
- 5B. Diabetes mellitus

 $(2 \text{ marks} \times 2 = 4 \text{ marks})$

MHI 602

- 6. Mention three drugs belonging to following class:
- 6A. Anticancer drugs
- 6B. Antitubercular drugs
- 6C. Antithyroid drugs
- 6D. Antiretroviral drugs

 $(1\frac{1}{2} \text{ marks} \times 4 = 6 \text{ marks})$

- 7A. Explain superscription and inscription parts of a prescription.
- 7B. List two parenteral routes of drug administration with an example of drug given through each route.

(3+2 = 5 marks)

- 8. What these abbreviations stand for?
- 8A. HS
- 8B. OD
- 8C. TID
- 8D. BID

($\frac{1}{2}$ mark \times 4 = 2 marks)

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SECOND SEMESTER M.Sc. HEALTH INFORMATICS DEGREE EXAMINATION – JUNE 2015

SUBJECT: MIN 602 – ADVANCED HEALTH INFORMATICS (SPECIALIZATION: HEALTHCARE IT MANAGEMENT/SOFTWARE DEVELOPMENT & MANAGEMENT) (CBS-2014 SCHEME)

Monday, June 22, 2015

Time: 10:00 - 13:00 Hrs.

Max. Marks: 80

Answer ALL the questions.

1. What is Telemedicine? Mention various applications of Telemedicine. What are the bottlenecks for the growth of Telemedicine in India? Explain.

(1+2+9 = 12 marks)

2. What is an expert system? List the components of expert systems. How the knowledge is represented in an expert system? Explain with suitable example.

(1+1+10 = 12 marks)

3. Enumerate the general principles of health informatics ethics. Write the subject centered duties of a health informatics professional.

(4+8 = 12 marks)

4. Discuss the changes in professional practice due to advances in healthcare informatics. Write impact of health informatics on sociocultural environment of healthcare.

(7+5 = 12 marks)

5. Discuss the current scenario of health informatics in India, including need, technology, market, standards and regulation.

(2+2+1+3+4 = 12 marks)

6. Write short notes on:

- 6A. Trends influencing health informatics
- 6B. Dimension of performance for the protection of healthcare information
- 6C. Clinical Decision Support System
- 6D. mHealth benefits

 $(5 \text{ marks} \times 4 = 20 \text{ marks})$

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SECOND SEMESTER M.Sc. H.H.L.A. / M.Sc. HI DEGREE EXAMINATION - JUNE 2015

SUBJECT: HOSPITAL ADMINISTRATION (MHI 608/MIN 606) (SPECIALIZATION: HEALTHCARE IT MANAGEMENT AND SOFTWARE DEVELOPMENT & MANAGEMENT) (CBS-2013 SCHEME/2014 SCHEME)

Wednesday, June 24, 2015

Time: 10:00 - 13:00 Hrs.

Max. Marks: 80

- & Answer ALL questions.
- # Long Essays
- 1/4. Discuss the recent wends in organization and management of Medical Records Department of a 1000 bedded hospital

(22 marks)

TE. Discuss the operational planning of a Bospital Fharmac.

(22 marks)

- Short notes.
- . Nealthcare Waste Disposal
- E. TSSU
- Quality Control in Hospital Laboratories

 $(12 \text{ marks} \times 3 = 36 \text{ marks})$

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