MANIPAL UNIVERSITY
FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JUNE 2007
SUBJECT: EPIDEMIOLOGY AND BIOSTATISTICS
Thursday, June 14, 2007

Time available: 3 Hours   Max. Marks: 80

✍ **Answer ALL questions.**

1A. List the characteristics of scientific method of research.
1B. State the characteristics of Ratio scale. Classify the followings as examples under nominal, ordinal, interval and ratio scales – Age, Gender, Depression, Blood pressure, Blood group.

(5+5 = 10 marks)

2A. Explain qualitative and quantitative characteristics with example.
2B. Explain exclusive and inclusive type class interval with example.

(5+5 = 10 marks)

3A. Define simple random sampling. State the merits and demerits of simple random sampling.
3B. Following data shows the cause of death in a year as recorded in a hospital.

Cause of death	Year - 2001
Circulatory System	540
Neoplasm (Cancers)	270
Respiratory system	120
Others	90
Total	1020

Represent the data by sector Diagram.

((2+3)+5 = 10 marks)

4A. Define: Arithmetic mean, Median, Mode, Range and Coefficient of variation.
4B. Compute Range and inter-quartile range for the following data.
Sys: BP: 120, 125, 121, 123, 125, 127, 120, 128, 123, 126, 125.

(5+(1+4) = 10 marks)

5A. Explain the terms Skewness and Kurtosis with sketches.
5B. What proportion of cases in a normal distribution are:
i)   Less than mean + 2 S.D.
ii)   Between mean + S.D and mean + 2 S.D.

(5+5 = 10 marks)

6A. Define health information system. Enumerate the uses of health information system.
6B. Define crude birth rate. List the factors affecting crude birth rate.

((2+3)+5 = 10 marks)

7A. Differentiate Reliability and Validity with example.
7B. If there had been 300 and 500 cases of an illness in a population at the beginning and towards the end of a year in a population of 20,000, what is the incidence rate?

(5+5 = 10 marks)

8. State the aims of epidemiology. Discuss the usefulness and limitations of Cross-sectional studies.

(3+3+4 = 10 marks)

MANIPAL UNIVERSITY

FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JUNE 2007

SUBJECT: MEDICAL TERMINOLOGY – II

Friday, June 15, 2007

Time available: 3 Hours

Max. Marks: 80

1. Give the correct explanation for the following medical terms:

    a) Vasculitis   b) Stupor   c) Hypospadiasis   d) Oligomenorrhea

    e) Chalazion   f) Mastoiditis   g) Encephalitis   h) Mitral stenosis

    i) Hypersomnia   j) Cerebral thrombosis.

    (1×10 = 10 marks)

2. Write down the correct expansion for the following abbreviations:

    a) OHS   b) RMLE   c) TAE   d) ERV   e) NTMI

    f) LR   g) MMR   h) MTP   i) AAN   j) LLQ

    k) BJE   l) DD   m) CGS   n) GCT   o) EOM.

    (1×15 = 15 marks)

3. Briefly explain the following:

    a) Plague   b) Cyclothymia   c) PMS

    d) Myocardial infraction e) Hyperaldosteronism f) Bell's palsy

    g) Climatric   h) Chalazion   i) Presbycusis

    j) Botulism.

    (2×10 = 20 marks)

4. Write down the exact medical term for the following explanation:

4A. An abnormal turning out of a part of an eyelid.

4B. Abnormally slow heartbeat.

4C. The pressure of excess cholesterol in the blood.

4D. A state of disordered tonicity of tissues.

4E. A mild mania especially as a part of bipolar disorder.

    (1×5 = 5 marks)

5. Answer the following:

5A. Mention any five skin disorders and their correct meaning.

5B. How do you distinguish candidiasis from chancroid?

5C. Explain in detail about epilepsy.

5D. Mention any five fungal diseases with exact causative organism.

5E. Give an account of male reproductive system.

5F. Explain in detail about pellagra and kwashiorkor.

    (5×6 = 30 marks)

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FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JUNE 2007

SUBJECT: FUNDAMENTALS OF MANAGEMENT
(NEW REGULATIONS)

Saturday, June 16, 2007

Time available: 3 Hours.   Max. Marks: 80

✍   **Answer ALL the questions.**

1.   What is counseling? What are the steps in counseling process?

(10 marks)

2.   Discuss the techniques of co-ordination.

(10 marks)

3.   Define departmentalization. Discuss the different bases for departmentalization with their advantages and drawbacks.

(3+7 = 10 marks)

4.   Who is known as the "Father of Modern Management"? What are the principles propagated by him?

(2+8 = 10 marks)

5.   Explain the different levels of management. Discuss the functions of each level.

(10 marks)

6.   What are the steps involved in planning? What are the types of plans?

(10 marks)

7.   What is Motivation? Write in brief about McGregor's Theory X and Theory Y.

(4+6 = 10 marks)

8.   What are the skills required for an industrial leader? Explain in brief each skill.

(10 marks)

MANIPAL UNIVERSITY

FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JUNE 2007

SUBJECT: BASIC ACCOUNTANCY
(NEW REGULATIONS)

Monday, June 18, 2007

Time available: 3 Hours.   Max. Marks: 80

1.   Answer any **TEN** of the following:

1A.   What is a Nominal Account?

1B.   What is Trial Balance?

1C   What is One-sided error?

1D.   What are Bad Debts?

1E.   What is a Suspense A/c?

1F.   Define Book-Keeping.

1G.   Give the rule of Real Account.

1H.   What is narration?

1I.   What is a ledger?

1J.   Who is a debtor?

1K.   What are liabilities?

1L.   Pass the entry for cash drawn by the proprietor for home use.

(2×10 = 20 marks)

✍   Solve the following problems:

2.   Enter the following transactions in various subsidiary books and open only personal accounts in the ledger:

2003 Jan 1.   Bought goods from Govind Rs.   8,000

"   2.   Sold goods to Vallari at 5% Rs. 10,000

"   4.   Govind returned goods   Rs.   200

"   6.   Bought goods from Nanda Rs. 15,000

"   7.   Purchased goods from Kishanchand Rs. 11,000

"   8.   Sold goods to Manikchand less 5% Rs.   7,000

"   Packing and delivery Rs.   200

"   10.   Vallari returned goods   Rs.   100

"   15.   Krishna sold us goods   Rs. 2,000

"   16.   Debit note sent to Nanda   Rs.   100

(15 marks)

3. Prepare a Three Column Cash Book from the following details:

2003 May 1. Cash in hand Rs. 8,000; at Bank Rs. 10,000.
" 2. Sold goods for cash Rs. 2,500.
" 3. Purchased goods for cash Rs.1,800.
" 4. Received commission Rs. 500.
" 6. Received a cheque from Vrinda for Rs. 5,250 in settlement of her A/c in settlement of her A/c for Rs. 5,300.
" 7. Issued a cheque to Rony for Rs. 4,200 in settlement of Rs. 4,300.
" 10. Rent paid by cheque Rs. 1,000.
" 11. Vrinda's cheque paid into bank.
" 15. Paid cash to Sony Rs. 3,900.
" 18. Paid salaries by cash Rs. 2,200.
" 19. Paid cash into bank Rs.3,000.
" 22. Withdrew from bank for office use Rs. 4,850.
" 25. Bought stationery Rs. 800.

(15 marks)

4. Prepare an Analytical Petty Cash Book under the Imprest system, the imprest amount being Rs. 250

2001 Apr 1. Balance from last month   Rs. 17
" 2. Received a cheque to make up the imprest
" 3. Postal stamps purchased   Rs. 15
" 5. Bought covers and books   Rs. 18
" 7. Wages paid   Rs. 40
" 8. Paid telephone bill   Rs. 25
" 10. Paid subscription to newspapers   Rs. 32
" 15. Paid repairs to plant   Rs. 45
" 18. Paid electricity charges   Rs. 28
" 20. Paid to Nirma   Rs. 10
" 25. Bought inland letters   Rs. 12
" 30. Paid for stationery   Rs. 12

(15 marks)

5. Prepare a Bank Reconciliation Statement as on 31-3-02
   i) The trader's cash book shows a deposit of Rs. 12,500.
   ii) Cheques sent to the bank for collection Rs. 4,000 but not collected by the bank.
   iii) Cheques issued but not cashed by the bank Rs. 1000.
   iv) There was a direct payment by a customer for Rs. 3,000 appears credited only in the pass book.
   v) The pass book shows a debit of Rs.100 for bank charges and a credit of Rs. 200 for dividend collected by the bank.
   vi) There was a wrong debit in the pass book for Rs. 2,000.

(15 marks)

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