

MANIPAL UNIVERSITY

FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – MAY/JUNE 2012

SUBJECT: EPIDEMIOLOGY AND BIOSTATISTICS

Tuesday, May 29, 2012

Time: 10:00-13:00 Hrs

Max. Marks: 80

1. Describe Inductive and Deductive reasoning. (5 marks)

2. Explain Split Halves test of assessing reliability. (5 marks)

3. What are quantitative variables? Explain with examples. (5 marks)

4. Classify the following into different scales of measurements (Nominal, Ordinal, Interval and Ratio)
 - 4A. Temperature ($^{\circ}$ F)
 - 4B. City
 - 4C. Age
 - 4D. Gender
 - 4E. Hospital Number(5 marks)

5. How is quota sampling carried out? What are its merits and demerits? (5 marks)

- 6A. Construct a histogram for the following data regarding age (in years) of patients who visited a clinic

Age	Frequency
10 – 20	10
20 – 30	15
30 – 40	8
40 – 50	6
50 – 60	6
60 – 70	3

6B. Following are the fasting blood glucose level (mg/dl) of 30 children. Prepare a frequency table with 5 equal class intervals. Also find the relative frequencies.

61 61 60 55 75 62 65 56 64 63
57 65 75 57 59 67 62 65 68 77
72 79 62 73 57 61 60 68 69 67

(5+5 = 10 marks)

7. A researcher studied 15 – HIV positive patients who were treated with highly active antiretroviral therapy (HAART) for at least six months.

The CD4 T cell counts ($\times 10^6 / l$) at base line for the subjects are as follows:

230 205 313 207 227 245 173 58 103 181 105 301 169 271 212

Calculate mean, median and coefficient of variation.

(10 marks)

8. With the help of a neat diagram enumerate the properties of Normal distribution.

(5 marks)

9. Describe the types of correlation with the help of scatter diagram.

(5 marks)

10. What are the components and uses of health information system?

(5 marks)

11. Write a note on prevalence and incidence. Distinguish between ratio and proportion.

(10 marks)

12. Define epidemiology. List the uses of epidemiology and explain case series study.

(10 marks)



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FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – MAY/JUNE 2012

SUBJECT: MEDICAL TERMINOLOGY – II

Thursday, May 31, 2012

Time: 10:00-13:00 Hrs

Max. Marks: 80

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

- | | | | |
|-----------------|---------------------|-------------|--------------|
| a) Endarteritis | b) Tachycardia | c) Apraxia | d) Asthenia |
| e) Hydroureter | f) Prostatocystitis | g) Dystocia | h) Hordeolum |
| i) Alopecia | J) Delirium | | |

(1×10 = 10 marks)

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

- | | | | | |
|--------|--------|---------|--------|---------|
| a) LFT | b) BCG | c) CSOM | d) ASD | e) GI |
| f) TKR | g) ARS | h) MVP | i) OPV | j) FTND |
| k) CVA | l) PT | m) RHD | n) PCV | o) SLE |

(1×15 = 15 marks)

3. Briefly explain the following conditions:

- | | | |
|-------------------------|--------------------|-----------------------|
| a) Pancost's syndrome | b) PDA | c) Precocious puberty |
| d) Headache | e) Fetishism | f) Phimosis |
| g) Hypermetropia | h) Chaga's disease | i) Rabies |
| j) Waardenburg syndrome | | |

(2×10 = 20 marks)

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

- 4A. Inflammation of the pericardium.
 4B. A Blood vessel that carries blood from the body back into the heart.
 4C. Painful sexual intercourse.
 4D. A collection of pus in the kidney.
 4E. Excessive flow of milk through the nipple.

(1×5 = 5 marks)

5. Answer the following:

- 5A. Briefly explain about anemia.
 5B. Mention any five bacterial disease and its causative organism.
 5C. Distinguish between arteriosclerosis and atherosclerosis.
 5D. Differentiate between gynecology and obstetrics.
 5E. Mention any five disease or disorders of eye with brief explanation.
 5F. Write a short note on syphilis.

(5×6 = 30 marks)



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FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – MAY/JUNE 2012

SUBJECT: BASIC ACCOUNTANCY

Saturday, June 02, 2012

Time: 10:00-13:00 Hrs.

Max. Marks: 80

✍ Answer all questions.

1. Answer any TEN of the following:

- 1A. What is a Nominal Account?
- 1B. What is a Suspense Account?
- 1C. Give the rule of Real Account.
- 1D. Define Book-Keeping.
- 1E. Who is a Debtor?
- 1F. What are assets and liabilities?
- 1G. What are final accounts?
- 1H. What is Narration?
- 1I. What is Ledger?
- 1J. What is Posting?
- 1K. What do you mean by Single Column Cash book?
- 1L. Explain:
 - i) Entry
 - ii) Account

(2×10 = 20 marks)

✍ Solve the following problem:

2. Prepare Trading and Profit and loss Account and balance sheet from the following balances relating to the year ending 31.03.2007:

	₹		₹
Capital	10,000	Wages	5,000
Creditors	1,200	Bank	1,000
Returns outwards	500	Repairs	50
Sales	16,400	Stock (1.04.2006)	8,000
Bills payable	500	Rent	400
Plant and Machinery	4,000	Manufacturing expenses	800
Sundry debtors	2,400	Trade Expenses	700
Drawings	1,000	Bad debts	200
Purchases	10,500	Carriage	150
Returns inwards	300	Fuel and power	100

The closing stock was valued at ₹ 1,450.
 Depreciate Plant and Machinery by ₹ 400.
 Allow 5% interest on capital.
 A sum of ₹ 40 is due for repairs.

(15 marks)

3. Enter the following transactions in the purchase book of Mr. Ravi: 2008,

- Jan1: Bought from Mangalore 100 bags of rice @ ₹ 80 per bag.
- 2 Bought from Mysore, 20 bags of sugar @ ₹ 200 per bag.
- 5 Bought from Nilgiri Company 10 cases of tea @ ₹ 100 per case.

- Jan 6: Bought from Vijaya Stores Delhi:
 100 bags of rice @ ₹ 100 per bag.
 50 bags of wheat @ ₹ 400 per bag.
 200 bags of sugar @ ₹ 200 per bag.
 Less: Trade discount 10%
- Jan 10: Bought from Chennai stores:
 100 bags of rice @ ₹ 90 per bag.
 100 bags of cotton @ ₹ 300 per bag.
- Jan 20: Bought from Delhi stores:
 200 bags of rice @ ₹ 100 per bag.
 Less: Trade discount 15%

(15 marks)

4. Enter the following transactions in a Two Column cash book.
 2007,

Oct 1 Opening balance of cash	₹ 7,000
Oct 2 Received from Raj and allowed discount	₹ 1,500 ₹ 50
Oct 4 Paid to Mr. X ₹ 500 in full settlement of his account	₹ 550
Oct 5 Sold goods for cash	₹ 1,600
Oct 8 Bought goods for cash	₹ 200
Oct 9 Paid Vijay	₹ 200
Oct 12 Bought office furniture for cash	₹ 225
Oct 15 Received commission	₹ 500
Oct 16 Received interest	₹ 300
Oct 19 Paid for advertisement	₹ 150
Oct 22 Received from Ram and allowed him discount	₹ 700 ₹ 50
Oct 26 Withdrew cash for personal use	₹ 500
Oct 31 Paid office rent and salaries	₹ 800 ₹ 500

(15 marks)

5. Journalise the following transactions:
 2008,

Jan 1 Commenced business with furniture and cash	₹ 2,000 ₹ 4,000
Jan 3 Bought goods for cash	₹ 5,000
Jan 4 Bought goods from Ramu	₹ 5,000
Jan 5 Made cash sale	₹ 8,000
Jan 6 Paid cash to Ramu	₹ 500
Jan 7 Sold goods to Shankar	₹ 5,000
Jan 9 Purchased goods on credit from Vaishak	₹ 7,000
Jan 12 Cash received from Shankar	₹ 1,000
Jan 20 Received cash from Vaishak	₹ 4,000
Jan 25 Sold goods to Vaishak on credit	₹ 7,000
Jan 30 Paid rent	₹ 600
Wages	₹ 400

(15 marks)



MANIPAL UNIVERSITY**FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – MAY/JUNE 2012****SUBJECT: FUNDAMENTALS OF MANAGEMENT**

Tuesday, June 05, 2012

Time: 10:00-13:00 Hrs.

Max. Marks: 80

1. Define co-ordination. What is the distinction between coordination and cooperation?
Enumerate the requisites for an excellent coordination.

(2+2+6 = 10 marks)
2. Define planning. Discuss the two forms of planning. What is the advantage of planning?

(2+5+3 = 10 marks)
3. Discuss the 'deficit and progression' principle in the context of Maslow's need hierarchy theory. How is Herzgerz's theory different from Maslow's?

(10 marks)
4. Define counseling. What are the causes for counseling? What could be the drawbacks in this process?

(2+6+2 = 10 marks)
5. Define training. Discuss the types of training programmes. What are the advantages of training?

(2+5+3 = 10 marks)
6. Describe the essentials of a good appraisal system. Discuss the different types of performance appraisal methods.

(4+6 = 10 marks)
7. **Write short notes on:**
 - 7A. Sources of Recruitment.
 - 7B. Role of a mentor.
 - 7C. Merit vs. seniority in promotion.
 - 7D. Distinction between formal and informal organization.

(5×4 = 20 marks)

