

MANIPAL UNIVERSITY
FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JUNE 2010
SUBJECT: EPIDEMIOLOGY AND BIostatISTICS

Tuesday, June 08, 2010

Time: 14:00-17:00 Hrs

Max. Marks: 80

✍ **Answer all the questions.**

- 1A. Bed occupancy of a hospital in a particular day was 1580 with 750 females and 830 males. Present the data by a pie-chart after converting into percentages.
- 1B. Define sampling. Enumerate reasons for sampling.

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

2. It is observed that, the average length of hospital stay of patients after a particular surgery is 10 days with a standard deviation of 3 days. If the length of stay is normally distributed, find the probability that a randomly selected patient from this group will have a length of stay.

- 2A. Greater than 16 days
2B. Between 7 and 13 days
2C. Less than 10 days
2D. Between 4 and 10 days
2E. More than 19 days

(2×5 = 10 marks)

- 3A. Define incidence and prevalence.
3B. Briefly describe various fertility and mortality statistics.

(2+(4+4) = 10 marks)

4. Briefly describe various descriptive epidemiological methods with their merits and demerits.
- (10 marks)

5. **Write short notes on:**

- 5A. Role of statistics in medical documentation.
5B. Research methods and methodology.
5C. Scales of measurements.
5D. Stratified random sampling.
5E. Measures of location.
5F. Reliability and validity.
5G. Correlation coefficient.
5H. Registration of vital events.

(5×8 = 40 marks)



Reg. No.

MANIPAL UNIVERSITY

FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JUNE 2010

SUBJECT: FUNDAMENTALS OF MANAGEMENT

Tuesday, June 15, 2010

Time: 14:00-17:00 Hrs.

Max. Marks: 80

1. Define communication. What are the purpose of communication? What are its forms?
(3+3+4 = 10 marks)
2. What are the various control techniques used in management? What are the essentials of an effective control system?
(5+5 = 10 marks)
3. What is counseling? What are the steps in the counseling process?
(3+7 = 10 marks)
4. Who is the Father of Modern management? What are the principles of management propagated by him?
(1+9 = 10 marks)
5. What are the functions of a leader? Discuss each function in detail.
(10 marks)
6. **Differentiate between the following:**
 - 6A. Management and Administration.
 - 6B. Leader and Manager.
 - 6C. Strategic and Tactical Plans.
 - 6D. Recruitment and Selection.

(5×4 = 20 marks)
7. **Write short notes on:**
 - 7A. Time study.
 - 7B. Conditions necessary for effective mentoring system.

(5×2 = 10 marks)



MANIPAL UNIVERSITY

FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JUNE 2010

SUBJECT: MEDICAL TERMINOLOGY – II

Thursday, June 10, 2010

Time: 14:00-17:00 Hrs

Max. Marks: 80

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

- | | | | |
|--------------|-----------------|-----------------|------------------|
| a) Syndrome | b) Fibrillation | c) Alkalosis | d) Delirium |
| e) Pyelitis | f) Cervicitis | g) Galactorrhea | h) Iridocyclitis |
| i) Hostility | J) Cicatrix | | |

(1×10 = 10 marks)

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

- | | | | | |
|---------|--------|---------|----------|---------|
| a) GBS | b) HAA | c) IVDP | d) PHTN | e) OBS |
| f) VAMP | g) FVC | h) IWI | i) NIDDM | j) RM |
| k) TPC | l) WHO | m) ESWL | n) KV | o) MRCP |

(1×15 = 15 marks)

3. Briefly explain the following.

- | | | |
|-----------------------|----------------------|----------------------|
| a) Measles | b) Manier's syndrome | c) Barlow's syndrome |
| d) Gigantism | e) Mucopolidosis | f) Bulimia nervosa |
| g) Nephrotic syndrome | h) Pre-eclampsia | i) Otitis media |
| j) Contagious disease | | |

(2×10 = 20 marks)

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

- 4A. Inflammation of the spinal chord.
 4B. The pathological loss of the ability to write.
 4C. An abnormal swelling and tortuosity especially of a superficial veins of the legs.
 4D. Marked or abnormal sexual indifference especially in a women.
 4E. Prolonged and abnormal inability to obtain adequate sleep.

(1×5 = 5 marks)

5. Answer the following:

- 5A. Mention any five mental disorders and its correct meaning.
 5B. How do you distinguish Mucopolidosis from phenylketonuria?
 5C. Write short notes on herpes and Kaposis sarcoma.
 5D. Mention any five bacterial diseases with exact causative organism.
 5E. Briefly explain about any five surgical specialties.
 5F. Briefly explain about Cerebral palsy.

(5×6 = 30 marks)



MANIPAL UNIVERSITY
FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JUNE 2010
SUBJECT: BASIC ACCOUNTANCY

Saturday, June 12, 2010

Time: 14:00-17:00 Hrs.

Max. Marks: 80

1. Answer any TEN of the following:

- 1A. What do you mean by 'Errors of Omission'?
- 1B. What is a Balance Sheet? How is it prepared?
- 1C. What are the branches of accounting?
- 1D. What is Posting?
- 1E. What is Narration?
- 1F. Who is a Creditor?
- 1G. What do you mean by Single Column cash book? Give its specimen.
- 1H. Give the rule of Real account with an example.
- 1I. Distinguish between Gross profit and Net profit.
- 1J. What do you mean by Sales book? Give its specimen.
- 1K. What is double entry system of book-keeping?
- 1L. Explain: i) Assets ii) Liabilities

(2×10 = 20 marks)

2. Solve the following problems:

2. Journalise the following transactions:

2007,

Dec 1 Commenced business with furniture	Rs.2,000
cash	Rs.4,000
Dec 3 Bought goods for cash	Rs.5,000
Dec 4 Bought goods from Chandan	Rs.2,000
Dec 5 Made cash sale	Rs.8,000
Dec 6 Paid cash to Chandan	Rs.5000
Dec 7 Sold goods to Shankar	Rs.5,000
Dec 9 Purchased goods on credit from Vivek	Rs.7,000
Dec 12 Cash received from Shankar	Rs.1,000
Dec 20 Received cash from Vivek	Rs.4,000
Dec 25 Sold goods to Vivek on credit	Rs.7,000
Dec 30 Paid rent	Rs.600,
Wages	Rs.400

(15 marks)

3. Enter the following transactions in proper subsidiary books:

2007,	Rs.
Jan 1 Bought goods from Ajay	6,000
Jan 3 Sold goods to Bimal	1,000
Jan 4 Allowance claimed from Ajay for shortage	50
Jan 5 Sold goods to Chaterjee	1,500
Jan 6 Sold goods to Das	500
Jan 9 Bought goods from Elvin	1,000
Jan 10 Allowance granted to Das for shortage	40
Jan 11 Sold goods to Felix	800
Jan 12 Allowance granted to Chaterjee	20
Jan 15 Sold goods to Govind	700
Jan 18 Sold goods to Hilary	600
Jan 20 Felix returned goods	50
Jan 22 Govind returned goods	40
Jan 23 Returned goods to Elvin	100
Jan 24 Purchased goods from Dinesh	800
Packing and transporting	50
Jan 25 Sold goods to Gurudas	500
Jan 26 Allowed Hilary for Damaged goods	50
Jan 27 Received goods returned by Gurudas	20
Jan 28 Bought goods from Arjun Less 5%	400
Jan 31 Sold goods to Manohar Less 8%	100
Cartage charges	10

(15 marks)

4. From the following particulars prepare Bank Reconciliation Statement as on 31/12/01:

- i) Bank balance as on 31/12/01 as per pass book Rs.20,000.
- ii) Bank charges debited Rs.130.
- iii) Cheques issued but not presented to bank for payment Rs.3,000.
- iv) Cheques deposited to bank but not credited in the pass book Rs.5,000.
- v) A cheque entered as deposit in the cash book instead of a payment Rs.320.
- vi) Rs.324 paid into the bank had been entered twice in the cash book.
- vii) The receipt column of the cash book has been overcast Rs.1,000.
- viii) A cheque drawn for Rs.11 had been wrongly entered in the cash book as Rs.111.

(15 marks)

5. On 31.12.2007, the following trial balance was extracted from the books:

	Dr. (Rs.)	Cr. (Rs.)
Capital		30,000
Drawings	5,000	
Sundry debtors & Creditors	20,000	10,000
Loan on Mortgage		9,500
Interest on loan	300	
Cash in Hand	2,000	
Provision for bad debts		700
Stock (1.1.2007)	6,800	
Motor vehicles	10,000	
Cash at Bank	3,500	
Land and Buildings	12,000	
Bad debts	500	
Purchases and Sales	66,000	1,10,000
Purchases and Sales returns	8,000	1,500
Carriage outwards	2,500	
Carriage inwards	3,000	
Salaries	9,000	
Rent taxes and insurances	3,000	
Advertising	3,500	
Discount		500
General Expenses	3,400	
B/R and B/P	6,000	2,000
Rent received		300
	1,64,500	1,64,500

Prepare Trading, Profit and loss account and Balance sheet as on 31.12.2007 after making adjustments:

- Depreciate land and building at 5% and motor vehicle at 20%.
- Salaries outstanding Rs. 700.
- Prepaid insurance Rs. 200.
- Provision for bad debts is to be maintained at 5% on sundry debtors.
- Stock in hand on 31.12.2007 was valued Rs. 7,000.

(15 marks)

