

MANIPAL ACADEMY OF HIGHER EDUCATIONS

(Deemed University)

FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JUNE 2006

SUBJECT: EPIDEMIOLOGY AND BIostatISTICS (COMMON FOR BOTH OLD & NEW REGULATIONS)

Wednesday, June 14, 2006

Time available: 3 Hours

Max. Marks: 80

✍ Answer all questions.

- 1A. Explain the usefulness of literature survey in research.
1B. Explain the various scales of measurement with example. (5+10 = 15 marks)
- 2A. Define simple random sampling. List the advantages of sampling over census.
2B. What is classification of data? State various types of classification with one example each. (5+(1+4) = 10 marks)
- 3A. Define: population, Sample, Sampling, sampling frame and Random sampling.
3B. Following table gives the sex wise distribution of patients admitted in a hospital in three successive years. Represent the data by percentage bar diagram.
- | Year | 2000 | 2001 | 2002 |
|-------|------|------|------|
| Sex | | | |
| M | 2379 | 3066 | 3417 |
| F | 1281 | 1314 | 1683 |
| Total | 3660 | 4380 | 5100 |
- (5+5 = 10 marks)
- 4A. Calculate Arithmetic mean and quartiles for the following data:
Systolic Blood Pressure (mmHg): 123, 125, 118, 120, 125, 122, 118
4B. List any two measures of dispersion. State the qualities of a good measure of dispersion. ((1+4)+(1+4) = 10 marks)
5. Illustrate with example how one can describe a data set in terms of percentage with the assumption of normality. (5 marks)
- 6A. Differentiate general and specific fertility rates.
6B. Explain the terms rate and ratio with example. ((5+5) = 10 marks)
- 7A. What is a hypothesis? What are the characteristics of a good hypothesis?
7B. Enumerate the uses of health information system. List the requirements to be satisfied by the health information systems. ((1+4)+(3+2) = 10 marks)
8. State the aims of epidemiology. Discuss the usefulness and limitations of cross-sectional studies. (3+3+4 = 10 marks)



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FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JUNE 2006**SUBJECT: MEDICAL TERMINOLOGY – II
(COMMON FOR BOTH OLD & NEW REGULATIONS)**

Thursday, June 15, 2006

Time available: 3 Hours

Max. Marks: 80

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

- a) Claudication b) Phlebitis c) Myopathy d) Lipping
e) Amyloidosis f) Priapism g) Vaginismus h) Entropion
i) Otorrhagia J) Blastomycosis

(1×10 = 10 marks)

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

- a) ED b) BIL c) RV d) URD e) CSSD
f) ERA g) DGO h) TSS i) SVD j) AHJ
k) DNS l) GBS m) EHPH n) RBBB o) TVP

(1×15 = 15 marks)

3. Briefly explain the following conditions.

- a) Multiple sclerosis b) Buerger's disease c) Scurvy
d) Meningitis e) Abortion f) Strabismus
g) Pemphigus h) Filariasis i) Tetanus
j) Congenital heart disease

(2×10 = 20 marks)

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

- 4A. Inflammation of the petrous portion of the temporal bone.
4B. Loss of hair other than normal hair fall.
4C. A horny condition of the skin.
4D. Inflammation of the trigone of the bladder.
4E. Decreased flow of oxygenated blood to an organ due to obstruction in an artery.

(1×5 = 5 marks)

5. Answer the following:

- 5A. Briefly explain about urogenital system.
5B. Define syndrome and mention any six syndromes.
5C. Distinguish between diabetes mellitus and diabetes insipidus.
5D. Briefly explain about any two eating disorders.
5E. Differentiate between obsessive compulsive disorder and personality disorder.
5F. Write a short note on plague.

(5×6 = 30 marks)



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FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JUNE 2006

**SUBJECT: FUNDAMENTALS OF MANAGEMENT
(NEW REGULATIONS)**

Friday, June 16, 2006

Time available: 3 Hours.

Max. Marks: 80

✍ Answer **ALL** questions.

1. What is communication? What are the different types of communication? What is the purpose of communication?
(10 marks)
2. Discuss Fayol's principles of Management.
(10 marks)
3. Explain Motivation and mention its importance and benefits.
(10 marks)
4. What are the causes of Counseling needs? Explain each in brief.
(10 marks)
5. What is Mentoring? What are the different types of Mentoring? What are the hurdles in Mentoring?
(10 marks)
6. "Management is a three tier activity" Do you agree? Discuss your point of view.
(10 marks)
7. Write short notes on:
 - 7A. Morale
 - 7B. Manpower planning
 - 7C. Training
 - 7D. Human Skills.

(5×4 = 20 marks)



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FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JUNE 2006**SUBJECT: BASIC ACCOUNTANCY
(COMMON FOR BOTH OLD AND NEW REGULATIONS)**

Saturday, June 17, 2006

Time available: 3 Hours.

Max. Marks: 80

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

- 1A. What is an Account?
- 1B. Who is a debtor?
- 1C. What is a Nominal A/c?
- 1D. Define book-keeping.
- 1E. What is a ledger?
- 1F. What is an analytical petty cash book?
- 1G. What is rectification of errors?
- 1H. What are final Accounts?
- 1I. What is a Bank Reconciliation Statement?
- 1J. State the rule of Nominal A/c.
- 1K. What is posting?
- 1L. What are contra-entries?

(2×10 = 20 marks)

✍ Solve the following **FOUR** problems:

(15×4 = 60 marks)

2. Journalise the following transactions:

2001 Nov 1.	Commenced business with cash. Rs. 5000, Furniture	Rs. 3,000
„ 2.	Opened a bank A/c and deposit	Rs. 4,000
„ 3.	Purchased goods from Rahul at 5%	Rs. 8,000
„ 5.	Cash Sales	Rs. 5,000
„ 6.	Paid carriage on goods	Rs. 500
„ 7.	Loan borrowed from bank	Rs. 2,500
„ 10.	Bank charges charged by the bank	Rs. 100
„ 11.	Commission received from Sen	Rs. 250
„ 12.	Rent due to landlord	Rs. 1,000
„ 15.	Sold machinery to Dhawan	Rs. 4,000
„ 16.	Vishal bought goods from us	Rs. 2,000
„ 18.	Withdraw from bank for personal use	Rs. 1,500
„ 20.	Paid salary to Manager	Rs. 1,800
„ 25.	Furniture taken for home use	Rs. 3,500

Open the necessary subsidiary books and also show only the personal A/cs in the ledger:

2003 Feb. 1.	Bought goods from Arun	Rs. 8,000
„ 2.	Sold goods to Bimal less 5%	Rs. 10,000
„ 3.	Bimal returned goods	Rs. 200
„ 5.	Purchased goods from Chethan	Rs. 11,000
„ 6.	Purchased goods from Dinesh	Rs. 9,000
„ 8.	Sold goods to Farah less 10%, Package and delivery	Rs. 8,000 Rs. 100
„ 12.	Returned goods to Chetan	Rs. 200
„ 15.	Farah returned goods	Rs. 250
„ 20.	Debit note sent to Dinesh	Rs. 100

Prepare a Triple-Column Cash Book:

2004 Nov 1.	Opening Balances: Cash Rs 8,000, Bank Rs 10,000	
„ 2.	Sold goods for cash	Rs. 2,500
„ 3.	Bought goods for cash	Rs. 1,800
„ 4.	Received commission	Rs. 500
„ 6.	Paid rent by cheque	Rs. 1,000
„ 7.	Received a cheque from Vrinda for Rs 5,250 and discount allowed Rs.50.	
„ 10.	Vrinda's cheque paid into bank	
„ 12.	Issued a cheque to Guru for Rs. 4,200 in settlement of Rs. 4,300	
„ 15.	Paid Salaries	Rs. 2,200
„ 18.	Paid cash to Rony	Rs. 3,900
„ 19.	Cash paid into bank	Rs. 3,000
„ 22.	Withdrew from bank for office use	Rs. 4,850
„ 26.	Purchased stationery	Rs. 800

The pass book of a merchant shows a deposit of Rs.750 as on 30th Sept 01. On comparing his pass book with his cash book, the following variations were found.

Entries in cash book:

- i) Cheques issued Rs.500.
- ii) Cheques sent to bank for collection Rs.600.
- iii) Wrong debit of Rs.300.

Entries in pass book:

- i) Bank charges of Rs.100 entered twice.
- ii) Dividend collected Rs.200.
- iii) Interest on deposit Rs.400.

Prepare a bank reconciliation statement.



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FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JUNE 2006

SUBJECT: US ENGLISH AND PHONETICS (OLD REGULATION)

Monday, June 19, 2006

Time available: 3 Hours

Max. Marks: 80

1. Draw a neat diagram of speech organs and explain briefly how they are useful in producing English phonemes. (10 marks)

2. What are suprasegmental features? Explain briefly any three of them. (10 marks)

3. Write short notes on any twelve of the following:

a. allomorph	b. syllabic consonants	c. simple words
d. diphthongs	e. semi vowels	f. pairs of minimal contrast
g. free and bound morphemes	h. linking <u>r</u>	i. content words
j. positions of vocal cords	k. trills	l. consonant clusters
m. monophthongs	n. front vowels	
o. US English and UK English – a few differences.		

(2×12 = 24 marks)

4. Fill in the blanks using words relating Phonetics and US English.
 - 4A. A _____ is a vowel glide.
 - 4B. There are _____ oral sounds in English phonemic system.
 - 4C. In the secondary cardinal vowel position the lips are _____ when /i:/ in tree is made.
 - 4D. There are _____ centering diphthongs.
 - 4E. Soft palate functions when we produce phonemes _____.
 - 4F. In the English letter the name of X has _____ phonemes.
 - 4G. The tip of the tongue is called _____.
 - 4H. liver and lover constitute a minimal pair.
 - 4I. Phonetic transcription of symbols are shown within _____.
 - 4J. The most important part in a syllable is _____.
 - 4K. A few words have gone into American English from the natives of America. _____ is an example.
 - 4L. _____ is the word used by Americans to mean petrol.
 - 4M. Vest in UK English is _____ in American English.
 - 4N. Bank holiday is _____ in American English.
 - 4O. Letters are dropped in letter box. In America it is _____.
 - 4P. 'shell out', an idiom used in US means _____.
 - 4Q. In UK they begin the journey. In US they _____.
 - 4R. To say no Americans say _____.
 - 4S. 'Do you always take your wheels out?' Wheels in US English means _____.
 - 4T. Nail polish is American and _____ is British.

(½×20 = 10 marks)

5. Say whether the statements given below are true or false.
- 5A. The English letter C always represents phoneme /k/
- 5B. Voiced plosives are never aspirated in English.
- 5C. Glottis is completely shut while breathing.
- 5D. The letter r is pronounced when it comes between two vowels.
- 5E. In the word sure the diphthong is a _____ diphthong.
- 5F. /w/ and /j/ have the quality of a vowel.
- 5G. Among the monophthongs seven are long vowels and five are short ones.
- 5H. In the word qualities there are four syllables.
- 5I. In the English phonemic system there are twenty six phonemes.
- 5J. There is no vowel phoneme in the English word fly.
- 5K. 'Chocolate' is a term borrowed from the natives of America by US English speakers.
- 5L. American pupils 'graduate' from high school.
- 5M. 'Spilled the beans' is an idiom from US English which means lost something very precious.
- 5N. 'Bend someone's ears' in US English means bore some one.
- 5O. 'Sleeping policeman' in British English is referred to as speed bump in US English.
- 5P. Vigour is vigor in American English.
- 5Q. In the word girl r is prominently pronounced in A English.
- 5R. Autumn is referred to as fall by Americans.
- 5S. Americans pronounce the word news as noose.
- 5T. The diphthong /ei/ is sometimes heard as /ej/.

($\frac{1}{2} \times 20 = 10$ marks)

6. Match the following:

a. soft palate	dark l
b. voiced retroflex nasal	sibilant
c. youth	/ð/
d. judge	Semi vowel
e. tall	η
f. schwa	velum
g. potato chips	spend
h. phone	baby carriage
i. shell out	horn
j. raw vegetable	flash light
k. pram	crisps
l. torch	rabbit food

($\frac{1}{2} \times 12 = 6$ marks)

7. Transcribe the following words into phonemic symbols:

- | | | | | |
|----------|-----------|-----------|----------|----------|
| a. table | b. last | c. much | d. ring | e. dirty |
| f. taxi | g. pencil | h. bugs | i. lies | j. moon |
| k. teach | l. vision | m. worker | n. rate | o. old |
| p. dead | q. envy | r. tune | s. shell | t. keen |

($\frac{1}{2} \times 20 = 10$ marks)

