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FOURTH SEMESTER B.Sc. H.I.A/SIXTH SEMESTER B.A.S.L.P. DEGREE EXAMINATION – DECEMBER 2016

SUBJECT: EPIDEMIOLOGY & BIOSTATISTICS (BHI 204)/ BASIC STATISTICS (B 6.3)

Thursday, December 15, 2016

Time: 10:00-13:00 Hrs.

Max. Marks: 80

- Answer ALL the questions.
- 1. Explain the steps in a research process.

(5 marks)

2. Form a frequency table along with relative frequencies for the ages of 48 patients given below. (Class intervals: 0 - 15, 15 - 30, 30 - 45, so on)

31 10 36 29 40 22 40 30 39 53 47 64 76 33 46 38 50 30 34 25 36 39 36 17 65 39 43 62 30 07 47 32 36 42 42 15

47 27 32 39 24 57 37 43 43 54 40 39

(5 marks)

3. Compute the range, 85th percentile, first and third quartiles for the data on duration in days of chicken pox disease in 10 patients.

14 15 14 17 17 13 15 11 10 14

(10 marks)

4. The duration of time for the first exposure to HIV infection to AIDS diagnosis is called the incubation period. The incubation periods of a random sample of 10 HIV infected individuals is given below (in yrs):

7.5 11.0 10.5 10.0 6.5 13.5 12.0 7.5 11.5 10.0

- 4A. Calculate mean, median and standard deviation of incubation period.
- 4B. If the number 6.5 above were changed to 9.5, what would happen to the mean and median? State whether each would increase, decrease or remain the same.

(10 marks)

5. With the help of scatter diagram explain correlation.

(6 marks)

6. Classify the following into different scales of measurement:

a) Age

- b) Gender
- c) Temperature (°F)
- d) Marital status

(4 marks)

7. **Define the following:**

- 7A. Net reproduction rate
- 7B. Still birth rate
- 7C. Incidence rate

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

- 8. Serum cholesterol is an important risk factor for coronary disease. Serum cholesterol is approximately normally distributed with mean 200 mg/dL and standard deviation 20 mg/dL.
- 8A. If the clinically desirable range for cholesterol is < 180 mg/dL, then what proportion of people has clinically desirable levels of cholesterol?
- 8B. Some investigators feel that only cholesterol levels over 240 mg/dL indicate a high enough risk for heart disease to warrant treatment. What proportion of the population does this group represent?

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

9. Write short notes on:

- 9A. Face validity and content validity
- 9B. Quantitative variables
- 9C. Simple random sampling
- 9D. Skewness and kurtosis
- 9E. Census
- 9F. Cross sectional studies

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

BHI 204/B 6.3

Reg. No.		

FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – DECEMBER 2016 SUBJECT: BHI 208 - FUNDAMENTALS OF MANAGEMENT

(CBS 2014 SCHEME)

Friday, December 16, 2016

Time: 10:00-13:00 Hrs.

Max. Marks: 80

Answer ALL the questions: Ø

- Distinguish between 'formal' and 'informal' communication. Describe its various functions. 1. (10 marks)
- Define motivation. Describe its characteristics. Discuss the 'deficit and progression' principle 2. in the context of Maslow's need hierarchy theory. (2+3+5 = 10 marks)
- Discuss the different types of counselling. What are the steps involved in it? 3. (5+5 = 10 marks)
- Who is referred to as the Father of Scientific Management? What are the principles 4. propagated by him? What is the major difference between his principles and Administrative management principles? (1+4+5 = 10 marks)

What is the difference between wages and salary? What are the factors affecting wages? 5. Discuss.

(2+8 = 10 marks)

How are PERT and CPM networks developed? What is critical path? How is it determined? 6. (4+3+3 = 10 marks)

Write short notes on: 7.

- 7A. Medium of communication
- 7B. Importance of Organization
- Requisites for effective Planning 7C.
- 7D. Budget as a Control method

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

Reg. No.		

FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – DECEMBER 2016

SUBJECT: MEDICAL LANGUAGE II (BHI 202)

(CBS-2014 SCHEME)

Saturday, December 17, 2016

Time:	10:00-13:00	Hrs
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Max. Marks: 80

1	Explain	the	following	medical	terms:
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- Spasm a)
- Lesion b)
- Convulsion c)
- Morbidity d)
- Petechia

- Nausea
- Pallor
- Incubation i)
- Uremia j)

- f)
- g)
- Stranguary h)
- $(1 \text{ mark} \times 10 = 10 \text{ marks})$

Expand the following abbreviations. 2.

- **VDRL** a)
- TURP b)
- SDH c)
- CHD d)
- AOM e)

- EST f)
- BBB g)
- **PMS** h)
- **MHC** i)
- RUQ i)

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

Briefly describe the following conditions: 3.

- Infectious Mononucleosis a)
- Autism b)
- Kwashiorkor c)

Mastioditis d)

- Meningitis e)
- Chancroid f)

- Meconium Illeus g) Nystagmus j)
- Vulvovaginitis h)
- Atrial Fibrillation i)

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

Give the correct medical term for the following: 4.

- 4A. Distension of the abdomen caused by gas
- Inability to walk 4B.
- 4C. Distortion of sense of smell
- 4D. Exposing the internal organs of the body
- Lack of normal opening of body parts 4E.

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

Answer the following questions: 5.

- 5A. Explain any five of the hearing disorders.
- 5B. Give an account of malaria.
- Give a detailed account of anaemia. 5C.
- 5D. Give an account of musculoskeletal cancers.
- What are the vitamin deficiency disorders? Explain any three of them. 5E.
- Distinguish between multiple myeloma and multiple sclerosis. 5F.

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

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FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – DECEMBER 2016 SUBJECT: BASIC ACCOUNTANCY (BHI 206)

(CBS - 2014 SCHEME)

Monday, December 19, 2016

Time: 10:00-13:00 Hrs.

Max. Marks: 80

1. Answer any TEN of the following:

- 1A. What do you mean by "Errors of Omission"?
- 1B. What are final accounts?
- 1C. What do you mean by 'cash transaction'?
- 1D. Explain briefly: i) Purchase book and ii) Sales book
- 1E. What is a suspense account?
- 1F. What are the branches of accounting?
- 1G. What do you mean by single column cash book?
- 1H. Give the rule of real account.
- 11. Differentiate between Gross profit and Net profit.
- 1J. Give the meaning of 'Journal' and 'Narration'.
- 1K. What is the object of preparing a profit and loss account?
- 1L. What is posting? Explain how a transaction is posted to the ledger?

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

Solve the following problems.

2. Journalise the following transactions in the books of Prabhu

2013	100	₹	
	1 Paid in to the bank	1,000	
May	2 Bought goods for cash	1,000	
May	4 Sold goods for cash	600	
May	6 Sold goods to Murthy on credit	400	
May	7 Bought goods from Rajan on credit	500	
	9 Paid rent to land lord	300	
•	11 Paid salaries to manager	1,000	
•	15 Received commission from Suresh	20	
	19 Withdrew cash from office for personal use	200	
	20 Paid for repairing machine	200	
-	478 VIII.		

- 3. On 31.12.2011, Sharath's cash book showed a bank balance of ₹ 2,355. On verification of cash book with the pass book, he found that the following entries made in the cash book, but were not made in the pass book.
 - a) A cheque for ₹ 350 paid in to the bank account for collection.
 - b) A cheque for ₹250 issued to Rajan.
 - c) Another cheque for ₹ 170 issued to Bharath on 28th Dec 2011 and entered in the cash book was returned by Bharath on 30th Dec and no entry was made for it in the cash

The following entries were made in the pass book for which there were no corresponding entries in the cash book.

- a) A sum of ₹35 credited in the cash book for interest collected.
- b) A debit of ₹ 5 in the pass book for bank charges.

Prepare a Bank reconciliation statement showing balance as per pass book.

4. Enter the following transactions in proper subsidiary books.

2010	0		~ COLLD
			₹
Jan	1	Bought goods from Ajay	6,500
Jan	3	Sold goods to Bimal	1,000
Jan	4	Allowance claimed from Ajay for shortage	50
Jan	5	Sold goods to Shyam	1,500
Jan	6	Sold goods to Chandan	2,000
Jan	9	Bought goods from Alvin	2,000
Jan 1	1.0	Allowance granted to Chandan for shortage	40
Jan 1	12	Sold goods to Ganesh	800
Jan 1	2	Allowance granted to Shyam for overcharge	20
Jan 1		Sold goods to Rahul	700
Jan 1	8	Sold goods to Hilary	600
Jan 2	0.0	Ganesh returned goods	50
Jan 2	2	Rahul returned goods	40
Jan 2	3	Returned goods to Alvin	100
Jan 2	4	Purchased goods from Dinesh	800
		Packing charges	50
Jan 2	5	Sold goods to Gurudas	500
Jan 2	6	Allowed Hilary for Damaged goods	100
Jan 2'	7	Received goods returned by Gurudas	20
Jan28	3	Bought goods from Arjun Less 5%	400
Jan31		Sold goods to Manohar Less 8%	100
		Transport charges	20
			~0

5. Enter the following transactions in a simple cash book.

2001	-
	₹
Dec 1 Received from Madhu	1,500
Dec 4 Paid Anish	200
Dec 8 Received from cash sales	1,600
Dec 9 Paid Shanker	200
Dec 12 Purchased office furniture	300
Dec 15 Paid for stationery	50
Dec 18 Received commission from Arun	100
Dec 20 Paid interest on loan	80
Dec 25 Received from Ravi	500
Dec 28 Withdrew for personal use	200
Dec 30 Paid office rent	300
Dec 30 Paid salaries	600

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FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – DECEMBER 2016 SUBJECT: BHI 212 – FUNDAMENTALS OF HEALTH INFORMATICS (CBS - 2014 SCHEME)

Tuesday, December 20, 2016

Time:	10:00-1	1:30	Hrs.
T TITLE.	10.00 1	1.00	TALD.

Max. Marks: 40

Answer ALL questions.

1. What is a technical standard? Briefly discuss the specific communication standards of health informatics.

(1+9 = 10 marks)

2. "Health Informatics Literacy assists the health information management professionals to design and develop better health informatics applications in healthcare". Discuss the statement with suitable examples.

(10 marks)

3. What is the purpose of future study of health informatics? Briefly explains the approach of predicting the future of health informatics.

(2+8 = 10 marks)

- 4. Write short notes on:
- 4A. mHealth application
- 4B. Institution-wide system application

 $(5 \text{ marks} \times 2 = 10 \text{ marks})$