MANIPAL UNIVERSITY

FOURTH SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – DECEMBER 2010
SUBJECT: EPIDEMIOLOGY AND BIOSTATISTICS

Monday, December 13, 2010

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

1A.   Write briefly the steps involved in research process.

1B.   Discuss about various scales of measurement.

                                                    (5+5 = 10 marks)

2A.   Describe simple random sampling and systematic random sampling.

2B.   Enumerate the merits and demerits of these methods.

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

3A.   Explain the various graphical presentation for quantitative data.

3B.   Describe natural history of disease.

                                                    (5+5 = 10 marks)

4A.   Define the term "central tendency".

4B.   Enumerate the merits of various measures of central tendency.

4C.   Blood serum cholesterol levels of 10 subjects are as under:

        240   260   290   245   255   288   272   263   277   250

        Calculate its SD.

                                                    (1+3+6 = 10 marks)

5.   **Write short notes on:**

5A.   Gaussian curve.

5B.   Skewness and Kurtosis.

5C.   Incidence and Prevalence.

5D.   Sample registration system.

5E.   Formulation of hypothesis.

5F.   Scatter diagram.

5G.   Reliability and validity.

5H.   Uses of Epidemiology.

                                                    (5×8 = 40 marks)

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

SUBJECT: MEDICAL TERMINOLOGY – II
Wednesday, December 15, 2010

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

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

    a) Enterocolitis   b) Coronary thrombosis   c) Varicosis
    d) Agraphia   e) Cystitis   f) Phimosis
    g) Agalactia   h) Epiphora   i) Perichondritis
    j) Aphonia

    (1×10 = 10 marks)

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

    a) FUO   b) ITP   c) IWI   d) NTMI   e) TIA
    f) RTI   g) GGE   h) HTX   i) KT   j) LVD
    k) PMS   l) SCD   m) HSM   n) TKR   o) MVV

    (1×15 = 15 marks)

3. **Briefly explain the following conditions:**

    a) Mental retardation   b) Ovarian cyst   c) Presbyopia
    d) Erysipelas   e) Dengue fever   f) Cardimyopathy
    g) Raynaud's syndrome   h) Kwashiorkar   i) Huntington's disease
    j) Salmonellosis

    (2×10 = 20 marks)

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

4A. Inflammation of the lymph nodes.

4B. Pain or fatigue in arms and legs due to poor supply of oxygen to the muscles.

4C. A mental disturbance characterized by confusion, disordered speech and hallucination.

4D. A condition characterized by un-descended testis.

4E. Abnormally profuse menstrual flow.

    (1×5 = 5 marks)

5. **Answer the following:**

5A. Briefly explain about any five disease spread through sexual contact.

5B. Mention any five parasitic disease with its causative parasite.

5C. Mention any five skin disease with its meaning.

5D. Briefly explain about any two hearing disorders.

5E. Write a short note on cancer and its mode of spread.

5F. Briefly explain about any five disease of kidney.

    (5×6 = 30 marks)

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

SUBJECT: FUNDAMENTALS OF MANAGEMENT

Friday, December 17, 2010

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

1. Who is an effective leader? What are the forces determining effective leadership?

(4+6 = 10 marks)

2. Define communication. What are the principles of effective communication?

(3+7 = 10 marks)

3. Define incentive compensation. What are the advantages and disadvantages of wage incentive schemes?

(3+7 = 10 marks)

4. Define counseling. What are the needs for counseling? What are its types?

(2+4+4 = 10 marks)

5. What are the principles of scientific management? Who propagated them?

(8+2 = 10 marks)

6. What are the steps in control process? What are the types of Control methods?

(6+4 = 10 marks)

7. **Write short notes on:**

7A. Making planning effective.

7B. Requisites for the success of an incentive plan.

7C. Difficulty of coordination.

7D. Motivational techniques.

(5×4 = 20 marks)