	Reg. No.
	MANIPAL UNIVERSITY
FI	RST TERM B.P.T. (BRIDGE PROGRAM) EXAMINATION – JANUARY 2011
	SUBJECT: BIOCHEMISTRY
	Monday, January 03, 2011
Tim	ne: 10:00-11:30 Hrs. Max. Marks: 40
赵 赵 1.	Answer ALL questions: Draw diagrams and flow charts wherever appropriate. Define glycolysis and write the reactions of aerobic glycolysis.
	(8 marks)
2.	Write the reactions of ketogenesis. Write a note on ketosis.
	(6 marks)
3.	Answer the following:

- 3A. With the help of a diagram explain the structure of DNA.
- 3B. Classify proteins based on composition giving suitable examples.
- 3C. Describe the process of digestion of carbohydrates.
- 3D. Write an account of biochemical function and name the deficiency manifestations of vitamin D.

 $(4 \times 4 = 16 \text{ marks})$

4. Explain the following:

- 4A. Basal metabolic rate.
- 4B. Steatorrhoea.
- 4C. Oxidative phosphorylation.
- 4D. Dietary fibres.
- 4E. Transamination reaction.

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



MANIPAL UNIVERSITY FIRST TERM B.P.T. (BRIDGE PROGRAM) EXAMINATION – JANUARY 2011

SUBJECT: SOCIAL SCIENCE AND PREVENTIVE MEDICINE

Wednesday, January 05, 2011

Time: 10:00-13:00 Hrs.

Max. Marks: 80

Answer SECTION 'A' and SECTION 'B' in TWO separate answer books.

SECTION 'A': PREVENTIVE MEDICINE : 40 MARKS

- 1A. Explain what is meant by the term 'Chain of infection'.
- 1B. List the 'DIRECT' modes of transmission of diseases, with an example for each.

(5+5 = 10 marks)

2. Short notes:

- 2A. Oral Polio Vaccine (OPV).
- 2B. Prevention of Protein Energy Malnutrition (PEM).
- 2C. Describe the prevention of type 2 diabetes mellitus at various levels.
- 2D. Epidemiological determinants of blindness.
- 2E. Explain the various methods of treatment and disposal of health-care waste.
- 2F. Disaster response.

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

SECTION 'B': SOCIAL SCIENCE : 40 MARKS

3. Define the concept of Social groups. Explain the influence of formal and informal groups on health and sickness.

(2+8 = 10 marks)

4. What is culture? Discuss the impact of culture on human behavior.

(2+8 = 10 marks)

5. What is Caste? Explain the features of modern Caste system.

(2+8 = 10 marks)

6. Write Short notes on the following:

- 6A. Problems of Women in employment.
- 6B. Social security measures for the disabled.

(5+5 = 10 marks)

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FIRST TERM B.P.T. (BRIDGE PROGRAM) EXAMINATION – JANUARY 2011 SUBJECT: RESEARCH FOR PHYSIOTHERAPISTS

Friday, January 07, 2011

Time: 10:00-13:00 Hrs.

Max. Marks: 80

1. Define the following:

- 1A. Prevalence rate.
- 1B. Incidence rate.
- 1C. Maternal mortality rate.
- 1D. Post neonatal mortality rate.
- 1E. Gross reproduction rate.

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

- 2A. What is meant by dispersion? Briefly explain the different measures of dispersion.
- 2B. The weights of 14 patients (in Kilogram) admitted in ICU of a particular hospital is given below. Obtain the quartile deviation and inter quartile range.
 56, 67, 58, 70, 71, 65, 61, 49, 68, 59, 60, 56, 55, 63

(6+4 = 10 marks)

- 3A. Briefly explain normal distribution with the help of a neat diagram.
- 3B. The average length of stay in a hospital of a certain type of patients is 30 days with a standard deviation of 8 days. If it is reasonable to assume an approximately normal distribution of lengths of stay, find the probability that a randomly selected patient from this group will have a length of stay:
 - i) Between 22 and 46 days
 - ii) Less than 14 days

(5+5 = 10 marks)

4. What is meant by epidemiology? Briefly discuss various study designs used in descriptive epidemiology with its merits and demerits.

(10 marks)

- 5A. Discuss the concept of probability sampling techniques? Explain stratified sampling technique with the help of an example.
- 5B. What are the advantages of probability sampling schemes over non-probability sampling?

(2+5+3 = 10 marks)

6. What is meant by research? Briefly discuss different steps in a research process.

(5 marks)

- 7. Write short notes on:
- 7A. Sources of health information system
- 7B. Correlation
- 7C. Scales of measurements
- 7D. Reliability

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

8. The following table gives the age of the 250 staffs working in an institution. Present the data graphically by a frequency polygon on a histogram.

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Age group	20-25	25-30	30-35	35-40	40-45	45-50	50-55
Frequency	12	42	48	53	46	27	22

⁽⁵ marks)

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FIRST TERM B.P.T. (BRIDGE PROGRAM) EXAMINATION – JANUARY 2011 SUBJECT: ETHICS/ADMINISTRATION AND TEACHING SKILLS

Monday, January 10, 2011

Time: 10:00-11:30 Hrs.

Max. Marks: 40

∠ Answer all questions.

PART - I

1. Essay Questions:

Discuss the ethical issues in academics.

(10 marks)

<u>PART – II</u>

2. Short Notes:

- 2A. Discuss the steps involved in equipment procurement for a physiotherapy department.
- 2B. Explain in detail about the two methods of promoting good public relations in a hospital.
- 2C. Discuss the ethical issues involved in private practice.
- 2D. Short notes on types of documentation.

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

PART – III

3. Briefly answer the questions:

- 3A. Medical negligence.
- 3B. Name two organizations that fund research works.
- 3C. Name the modes of public education.
- 3D. Common complaints faced by the hospital due to poor public relation.
- 3E. Therapists risks due to home visits.

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

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