

AMEZON/PARANA/KARNFULI/SURAMA/SIYANA/SINHAGAD-I (2007COURSE) JULY - 2013
SUBJECT: RESEARCH METHODOLOGY

Day : Saturday
Date : 06/07/2013

Time : 10:00 A.M. TO 1:00 P.M.
Max.Marks.100

N.B.

- 1) Q.No 1 and Q.No.5 are **COMPULSORY**. Out of remaining attempt any **TWO** questions from Section-I and any **TWO** questions from Section-II.
- 2) Answers to the two sections should be written in **SEPARATE** answer books.
- 3) Figures to the **RIGHT** indicate full marks.

SECTION -I

- Q.1** Enlist different types of research. During your M.Pharm course which type of research you will select? Describe the type of research in details. (10)
- Q.2** Describe the main features of research publication. What is impact factor? What is its importance? (20)
- Q.3** Explain in details how you will select a problem. (20)
- Q.4** Write short notes on any **TWO** of the following: (20)
- a) Clinical trials
 - b) Authorship of paper
 - c) Technology transfer
 - d) Qualitative research

SECTION -II

- Q.5** Describe briefly various types of records (registers) required for animal house. (10)
- Q.6** Explain the guidelines for experimentation with animals. (20)
- Q.7** Define bioassay. Describe the types and principles of bioassay. What are the advantages of bioassay over chemical assay? (20)
- Q.8** Write short notes on any **TWO** of the following: (20)
- a) Chi square test
 - b) Randomization
 - c) OECD guidelines No 403
 - d) Handling of biological waste.

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SINHA GAD /AMAZON/ PARANA/ KARNAFULI/ SURAMA/ SIYANA-I (2012 - CBCS) : JULY – 2013
SUBJECT : RESEARCH METHODOLOGY AND BIOSCREENING

Day : Saturday
Date : 06/07/2013

Time : 10:00 A.M. TO 1:00 P.M.
Max. Marks : 60.

N.B.:

- 1) Answer any **THREE** questions from Section-I and any **THREE** questions from Section-II.
- 2) Answer to the two sections should be written in **SEPARATE** answer books.
- 3) The use of non-programmable electronic pocket calculator is allowed.
- 4) Figures to the **RIGHT** indicate full marks.

SECTION-I

- Q.1** Explain the various sources of literature survey. Justify the need of extensive literature survey. (10)
- Q.2** Describe in details the selection of a research problem. (10)
- Q.3** Describe in details various components of a research paper. (10)
- Q.4** Write elaborate notes on any **TWO** of the following: (10)
- a) Basic concepts of quality by design
 - b) Plagiarism
 - c) Qualitative research.

SECTION-II

- Q.5** Explain the OECD guideline no 407 for subacute oral toxicity testing. (10)
- Q.6** Describe the bioscreening of of antiparkinsonian drugs. (10)
- Q.7** a) Two groups of 100 subjects each were included in a vaccine clinical trial. 15 subjects contracted the disease out of 100 inoculated subjects, while 25 subjects of the other groups contracted the disease. Test the effectiveness of the vaccine (use 5% L.O.S.). (05)
- b) Following is the data in respect of the weight and pulse rate for 7 men in a weight therapy club. (05)

weight in kgs – x	50	57	62	53	68	70	65
Pulse rate/ min y	67	68	73	65	72	74	70

Compute the Karl Pearson's coefficient of correlation and predict the pulse rate of a man who weights 72 kg.

- Q.8** Write elaborate notes on any **TWO** of the following: (10)
- a) Probit and logit
 - b) Factorial design
 - c) Type-I and Type-II errors.

