PROGRAM	:	BACHELOR'S IN URBAN AND REGIONAL PLANNING *TOWN AND REGIONAL PLANNING*
SUBJECT	:	**PLANNING DESIGN: INTRODUCTION TO PLANNING SURVEY 1B**
CODE	:	**PLSTRB1**
DATE	:	NOVEMBER / SUMMER EXAMINATION 11 NOVEMBER 2017
DURATION	:	(SESSION-2) 12:30 - 15:30 HRS
WEIGHT	:	50 : 50
TOTAL MARKS	:	100

ASSESSOR	:	MR. AUROBINDO OGRA UNIVERSITY OF JOHANNESBURG
MODERATOR	:	MR. ERIC NYEMBEZI MAKONI UNIVERSITY OF JOHANNESBURG
NUMBER OF PAGES	:	2 PAGES

INSTRUCTIONS:

1. Read the questions carefully; all questions are compulsory.
2. Any question can be answered first; mark the question number clearly.
3. Use of calculator is permissible.

GENERAL QUESTIONS:

Q1.   Describe in detail four categories of surveys conducted in urban and regional planning sector. Provide examples of scope covered under each of these categories.   (10)

Q2.   Explain in detail about research characteristics. Describe its importance in planning research.   (10)

Q3.   What are the various methods of data collection ? Explain in detail about questionnaires. Design a questionnaire for 'Housing Assessment of Informal Settlements' at a city level.   (15)

Q4.   List three advanced techniques in Urban and Regional Planning Analysis. Describe the applications of Geographic Information Systems (GIS) in Urban and Regional Planning.   (10)

Q5.   What do you understand by PESTEL Analysis. Provide a detailed PESTEL Analysis for the development of integrated complex with accommodation and sports facilities for students around Doornfontein area.   (15)
[60]

DATA CALCULATIONS, PROJECTIONS AND INTERPRETATION:

Q6.   Calculate the following for the city:

(a)   Population projections for years: 2021, 2031, 2041, 2051 and 2061 based on the base population of 1991, 2001 and 2011.   (5)

(b)   Decadal growth rates.   (7)

(c)   Assuming the area of the city is 25 km^2, and average family size is 4, calculate the population and building density of the city considering the administrative boundaries/ area of the city has not changed over the years.   (16)

(d)   Provide a suitable graphical representation, interpret the data and provide your analysis.   (12)
[40]

Year	Population	Growth Rate (%)	Population Density	Building Density
1991	125000			
2001	175000			
2011	250000			
2021				
2031				
2041				
2051				
2061				

TOTAL MARKS = 100