University of Mumbai

No. UG/ 14 of 2019-20

CIRCULAR :-

Attention of the Principals of the affiliated Colleges and Directors of the recognized Institutions in Humanities and Science & Technology Faculties is invited to this office Circular No. UG/16 of 2018-19, dated 14th June, 2018, relating to syllabus as per the (CBCS) for T.Y.B.A./T.Y.B.Sc. in Geography (Sem V & VI).

They are hereby informed that the recommendations made by the Board of Studies in Geography at its meeting held on 19th October, 2018 have been accepted by the Academic Council at its meeting held on 26th December, 2018 **vide** item No. 4.18 and that in accordance therewith, the revised question paper pattern of T.Y.B.A./T.Y.B.Sc. in Geography Semester V – Paper VI and IX has been brought into force with effect from the academic year 2018-19, accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI – 400 032
14th May, 2019

(Dr. Ajay Deshmukh)
REGISTRAR

To

The Principals of the affiliated Colleges, the Head of the University Departments and Directors of the recognized Institutions in Humanities and Science & Technology Faculties.
(Circular No.UG/334of 2017-18 dated 9th January, 2018.)

A.C/4.18/26/12/2018

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No. UG/14 -A of 2019-20 MUMBAI-400 032 14th May, 2019

Copy forwarded with Compliments for information to:-

1) The I/c Dean, Faculty of Humanities,
2) The I/c Dean, Faculty of Science & Technology,
3) The Chairman, Board of Studies in Geography,
4) The Director, Board of Examinations and Evaluation,
5) The Director, Board of Students Development,
6) The Co-ordinator, University Computerization Centre,

(Dr. Ajay Deshmukh)
REGISTRAR

AC - 26/12/2018
Item No. : 4.18

University of Mumbai

Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS)
T.Y.B.A. / T.Y.B.Sc. Geography, Semester – V Paper: VI

TOOLS AND TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS - I

QUESTION PAPER PATTERN [100 Marks ; 4 Hours]

Q. 1		Attempt **ANY TWO** of the following:	
	a)	Write a Note on: Basic Map-Concepts (as given in the syllabus 1.1) / Types of Projections / Choice of Projections / Properties and Uses of Any One Projection *[Examiners should ask any one short note from this list.]*	**08**
	b)	Construct a Projection	**08**
	c)	Construct a Projection	**08**
Q. 2		Attempt **ANY TWO** of the following:	
	a)	Calculation of Direction, Distance and Bearing Based on a Given Toposheet / Identification of Relief Based on a Given Toposheet	**08**
	b)	Area Calculation *[Examiners should ask any one method, square or strip]*	**08**
	c)	Demarcation of Watershed Based on a Given Toposheet / Tracing of Stream Network and Contours Based on a Given Toposheet *[Examiners should ask any one question from this list.]*	**08**
Q. 3		Read a Full S.O.I Toposheet provided to you and interpret the following: i) Physical Features ii) Cultural Features	**16**
Q. 4	**a)**	Prepare a State/District/ Thematic Map to represent the given data with the help of suitable Cartographic Technique. *[Examiners should provide a base map of the State/district administrative Unit with the recent data from government publications.]*	**12**
	b)	Interpret the said Thematic Map that prepared by you.	**04**
Q. 5	**a)**	Represent the given data with suitable Graphical Technique using MS-Excel.	**08**
	b)	Prepare Datasheet in SPSS based on given data, and calculation of Central Tendency and Standard Deviation using SPSS	**08**
Q. 6		a) Journal b) Viva	10 **10**

AC - 26/12/2018
Item No. : 4.18

University of Mumbai

Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS)
T.Y.B.A. / T.Y.B. Sc. Geography, Semester – V Paper: IX
GEOSPATIAL TECHNOLOGY

QUESTION PAPER PATTERN [100 Marks : Time: 4 Hours]

Q. 1 Attempt **ANY TWO** of the following:

a) Write a Note on **08**
Concept of Geospatial Technology (GST) / Components of GST / Importance of GST / Concept of Remote Sensing Technology (RST)/ Application of RST / Platforms / Resolution / Sensors
[Examiners should ask any one short note from this list.]

b) Draw a Diagram of : **08**
Process of RS / EMR / EMS / Spectral Reflectance and Spectral Signature
[Examiners should ask any one diagram from this list.]

c) Interpretation of Physical and Manmade/Cultural/Anthropogenic features of a Satellite Imagery / Mapping of Thematic Layers based on a Satellite Imagery **08**
[Examiners should ask any one question from this list.]

Q. 2 Attempt **ANY TWO** of the following:

a) Preparation of Landuse and Landform Classification of a Given DEM / Preparation of 3-D Model of the DEM Downloaded from Bhuvan Website. **08**

b) Write a Note on: **08**
Concept and Types of Aerial Photographs / Advanced Remote Sensing Technologies / Use of Bhuvan Website
[Examiners should ask any one short note from this list]

c) Interpretation of an Aerial Photograph. **08**

Q. 3 Attempt **ANY TWO** of the following:

a) Write a Note on: **08**
Concept of GPS (Geographical Positioning System) / Segments of GPS / Applications of GPS / Types of GPS / Data Accuracy and Errors / Factors Affecting GPS Data / Global Navigation Systems
[Examiners should ask any one or two short note/s from this list depending upon the content of that topic.]

b) Survey of Given Five Points / One Track / One Area with GPS device and Noting Down the Latitude, Longitude and Elevation. **08**

c) Survey of Given Five Points / One Track / One Area with GPS device and Transfer the Data in the Software and Prepare a Suitable Map. **08**

Q. 4 Attempt **ANY TWO** of the following:

a) Write a Note on: **08**
Concept and Components of GIS / Applications of GIS / Map Projection and Coordinate System / GIS Data Acquisition / GIS Data and Types
[Examiners should ask any one short note from this list.]

b) Import the Given Image, Stored in the Computer, into GIS Software and Geo-reference it **08**

c) Create Layers by Digitization of Point, Line and Polygon Features **08**
[Examiners may ask the student to use the above Geo-referenced Image or can give the ready Georeferenced Image for digitization.]

Q. 5 Attempt **ANY TWO** of the following:

a) Write a Note on: **08**
Functions of Database Creation – Input, Editing and Linking / Spatial Database Analysis: Overlay, Merge, Query.
[Examiners should ask any one short note from this list]

b) Create Non-Spatial Database (Edit / Link / Input) of Given Map (Spatial Data) **08**
[Examiners should provide the Shape File and Data.] / Use the Function of Overlay / Merge Layers / Spatial Query and Display Suitable Output
[Examiners should provide the Shape Files of Different Landuses]

c) Prepare a Thematic Map and Show Final Output by Using Map-Composer **08**

Q. 6 Assessment of Thematic Maps (Prepared by Using GST Tools) that are Attached to the Journal **10**

Q. 7 Journal and Viva **10**

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