| No. | | | |
|---------|---|--|----|
| M | | I) (New) (CBCS) Examination, 2017 | 7 |
| Day 8 | INTRODUCTION & Date: Tuesday,18-04-2017 | TO GEOGRAPHY Max Marks: 70 | |
| • | 10.30 PM to 01.00 PM | Wax Warks. 70 | |
| Tillie. | 10.50 1 W to 01.00 1 W | | |
| | N. B.: 1) Attempt totally five question 2) All Questions carry equal 3) Question no.1 is compulso 4) Attempt any two questions 5) Attempt any two questions 6) Draw neat and labeled diag | marks. ry s from Q.NO. 2, 3 and 4 s from Q.No. 5, 6 and 7 | |
| Q.1 | Fill in the gaps with correct option | | 14 |
| | 1) is not a green house gas.a) Methanec) Nitrogen | b) Carbon dioxided) Nitrous oxide | |
| | 2) The World Ozone-Day is observe a) 1st September c) 1st October | d on b) 16 th September d) 16 th October | |
| | 3) The normal lapse rate in atmosph a) 4°C per km b) 5°C per km | ere is c) 6.5 ⁰ C per km d) 7.5 ⁰ C per km | |
| | 4) The energy flows from one level to called . | o another in a sequential pattern | |
| | a) food chain c) trophic structure | b) food webd) none of these | |
| | 5) Conventional, orographic and froma) Cyclonesb) Precipitation | | |
| | 6) The lowest class of population is l a) Village b) Hamlet | | |
| | 7) The Border Road Development B a) 1960 b) 1965 | | |
| | 8) Tamilnadu receives much of its raa) Southwest Monsoonc) Northeast Monsoon | b) Western disturbance | |
| | 9) Which of the following seas doesa) Red seac) Sargosso sea | not have land boundaries? b) Adriatic sea d) Aegraon sea | |

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| | a) Chinook b) Mistral c) Solano d) Burran | |
|-----|---|----|
| | 11) urban form model focuses on transportation arterials. a) Sector Model b) Concentric model c) Periferal model d) Multiple nuclei model | |
| | 12) is not an indicator of the cultural landscape a) House type b) Kinship c) Size of settlements d) Transport | |
| | 13) types of cloud do not fit into the classification based on Height. a) Cumulus and stratocumulus b) Nimbostratus and cumulonimbus c) Cirro-cumulus and cumulus d) Cumulus and cumulonimbus | |
| | 14) The jet streams have an average velocity of km/hr in winter and km/hr in summer respectively. a) 40 and 160 b) 120 and 50 c) 80 and 120 d) 100 and 30 | |
| Q.2 | Explain the terms Climate and Weather | 14 |
| Q.3 | Give an account of major types of agriculture regions in India and add a note on their importance | 14 |
| Q.4 | What is soil? Discuss their types and soil profile | 14 |
| Q.5 | Write a brief account of A) Concept of Planning B) Bio diversity | 14 |
| Q.6 | Explain briefly A) Structure of atmosphere B) Town | 14 |
| Q.7 | Enumerate the followingA) Types of precipitationB) Forest eco-system | 14 |

| Seat | |
|------|--|
| No. | |

M.Sc. (Geoinformatics) (Semester I) (New) (CBCS) Examination, 2017 INTRODUCTION TO GEOLOGY

| Day 9 Data: Thursday 20 | 04 2017 | | May Marka, 70 |
|--|--|---|-------------------------|
| Day & Date: Thursday,20 | | | Max Marks: 70 |
| Time: 10.30 AM to 01.00 N.B. : | Answer any Five All Questions can Question No. 1 (4) | arry equal marks | |
| Q.1 Choose the correct 1) Smiths test is do a) Durability c) Density | | b) Frost and fire resistantd) Porosity | 14 ance |
| Most resistant ro a) Quartzite | ock for weathering i b) Marble o | | Slate |
| Igneous rocks w formed form, ma a) Sial | vith high concentrati agmas originally de b) Sima | ion of Mg and Fe are like rived from c) Mantle d) Ou | • |
| by Marbles quai | rried from | norial of Calcutta are Co Jabalpur d) Ch | nstructed nittorgarh |
| Highest grade o a) gneiss, slate | f metamorphic rock , schist, phyllite | ged in order from lowest ? b) gneiss, schist, phyllit d) slate, phyllite, schist | e, slate |
| 6) Highest salinitya) Dead seac) Pacific ocear | | b) Indian ocean d) Atlantic ocean | |
| 7) The hanging wa below 45 degree a) Reverse faul c) Normal fault | es. | ative to the foot wall with b) Thrust fault d) None | n fault Dip |
| 8) The outer core i a) Silicon-oxyge c) aluminium-ch | | b) magnesium-helium | |

| | 9) Which of the following metal is found in the earth's crust as both a native element and as a compound? | |
|-----|---|--------------------|
| | a) Argon b) Copper c) Chlorine d) Silicon | |
| | 10) A sedimentary layer whose thickness is less than one centimeter Known as a) Stratum b) Lamina c) Varve d) none of these | |
| | a) Stratum b) Lamina c) Varve d) none of these | |
| | 11) Which of the following is Clastic sedimentary rock a) Conglomerate b) Sandstone c) Breccia d) All the above | |
| | 12) Granite rock is an igneous rock and it contains a) Silica content more than 66% b) Silica content between 52 – 66% c) Silica content between 45 – 52% d) Silica content less than 45% | |
| | 13) Most favourable site for the construction of Dam is a) Upstream dipping beds b) Downstream dipping beds c) Jointed beds d) Faulted beds | |
| | 14) Khetri is famous for type of deposits. a) Lead b) Copper c) Gold d) Zinc | |
| Q.2 | What is a rock cycle? Write a briefly classification of Igneous and Sedimentary rock. | 14 |
| Q.3 | What is Geological consideration for construction of tunnels? | 14 |
| Q.4 | What are the Geological and Topographical maps and write outcrops, their trends with reference to slpoe. | 14 |
| Q.5 | Write short notes on i. Unconformities and Joints ii. Coal deposits in Maharashtra | 14 |
| Q.6 | Write briefly on the following i. Geological consideration for construction of Dams ii. Textures of Sedimentary rocks | 14 |
| Q.7 | Bring out the salient aspects of the following i. Gold deposit ii. Silicate Structure | 14 |
| | | Dago 2 of 3 |

| | | | SLR-RM - 555 |
|-------------|---|--|--|
| Seat No. | | | |
| M.S | c. Geoinformatics (Semester INTRODUCTIONS | , , , , , | |
| Day 8 | & Date: Wednesday, 19-04-2017 | | Max. Marks: 70 |
| Time | : 10.30 AM to 01.00 PM | | |
| | 3) Attempt an 4) Attempt an 5) Figures to th | NO.1 Compulsor by two questions from y two questions from the right indicate fu | om Question.NO. 2 to 4. om Question NO. 5 to 7 . |
| Q.1 | Choose the correct alternative (1) Data that describe the geometrical a) External Data c) Population Data | ry of spatial feature | e called as |
| | GLONASS is global position s a) Russia b) Japan | ystem operated by c) Europe | |
| | 3) The first aerial photograph take meteorologist a) E.D. Archibald c) D. Watson 4) PSLV is the abbreviation for a) Polar Space Launch Vehicl b) Polar Stationary Launch Ve c) Polar Satellite Launch Vehicl d) Polar Satellite Lift Vehicle | b) Warner d) G. Smith e e ehicle | ited to an English |
| | 5) LISS means a) Linear Image Self Scanning b) Line Image Self Scanning c) Linear Image Self Support d) None of the above | 9 | |
| | 6) In non selective scattering all verban cloud appears a) White b) Black | wavelengths are sc | attered equally d) Blue |
| | 7) The SPOT satellites are sun sineight a) 832 km b) 900 km | ynchronous satellite c) 850 km | e obits at d) 890 km |
| | | | |

8) The most important source of electromagnetic energy is ____.
a) Earth b) Moon c) Atmosphere d) sun

| | , · · · · · · · · · · · · · · · · · · · | b) Frequency b) Wavelength | |
|-----|---|--|----|
| | 10) Geostationary satellites are ideal to a) Land mapping to c) Communication communi | | |
| | , , | rical geographic grid to a plane b) Map design d) Map sketch | |
| | 12) windows are the regions for which the atmosphere is transparation a) Natural b) Solar c) | parent. | |
| | 13) FCC is abbreviation fora) False Colour Complexc) False Colour Composite | b) Few Colour Composite d) None | |
| | 14) French government in joint ventur developed series of satellia) SPOT b) LANDSAT | ite. | |
| Q.2 | What is Remote sensing? Write in de sensing? | tail the history of Remote | 14 |
| Q.3 | Explain in detain EMR? | | 14 |
| Q.4 | Explain in detail along rack and acros | s track scanning? | 14 |
| Q.5 | Write short note on. 1) Aerial photography 2) Parallex | | 14 |
| Q.6 | Describe in brief: 1) Energy interaction with earth surfaction and a surfaction with earth surfaction. | ce | 14 |
| Q.7 | Write an account on:1) Atmospheric windows2) Image interpretation | | 14 |

| | CI D DM E | 56 |
|-------------|--|----|
| Seat No. | SLR-RM-5 | סכ |
| | c. (Geoinformatics) (Semester – II) (New) (CBCS) Examination, 201 Introduction To GIS & GPS (HCT 2.2) | 7 |
| Day & | Date: Friday, 21-04-2017 Max. Marks: | 70 |
| Time: | 10.30 AM to 01.00 PM | |
| | N.B.: 1) Answer any five questions. 2) All questions carry equal marks 3) Q. no. 1 is compulsory. 4) Attempt any two from Q. no. 2, 3 and 4. 5) Attempt any two from Q. no. 5, 6 and 7. | |
| Q.1 | A) Select the correct alternatives. 1)is the name of Russian equivalent of GPS. | 4 |
| | a) GLASNOST b) IKONOS c) GPESKI d) GLONASS | |
| | 2) What does 1 mm on a map draw at a scale of 1: 25000 scale map?a) 50cmb) 5mc) 1500 cmd) 50m | |
| | a) DGPS stands for a) Differential Global Positioning System b) Different Ground Positioning System c) Defense of Ground Positioning System d) None of these | |
| | 4) NAVSTAR stands for a) Navigation System Trend and Ranging b) Navigation Satellite Timing and Ranging c) National Satellite Timing and Ranging d) None of these | |
| | GIS are Computer and systems that enable users to capture, store, analyze and manage spatially referenced data. a) Software and Hardware b) System and Hard disk b) Satellite and Hardware d) All of the above | |
| | UTM stands for a) Universal Transverse Mercator b) Universal Trend Mercator | |

c) Utility Transverse Mercator

a) National Overall and Area

b) Navigation Oceanic and Atmosphericc) National Orograph and Atmosphere

d) Utility Trend Mercator

7) NOAA stands for __

d) None of these

| | a) 1970 b) 1980 c) 1990 d) 1060 | |
|-----|---|----|
| | 9) Map makers use GPS to verify the a) Boundaries b) Roads c) Towns d) Places | |
| | 10) The history of GIS is started in a) 1854 b) 1960 c) 1858 d) 1955 | |
| | 11)Segment is the vital link in GPS technology main functions of the control segment are.a) Userb) Controlc) Spaced) Satellite | |
| | 12) The spatial data using statistical methods and time series.a) Observation b) Research c) Analysis d) Bands | |
| | 13) A system which use a spatial data to provide answers to quires of a a) Geographical nature b) Geomorphological c) Botany d) Physics | |
| | 14)is the new emerging field and grows at vary rapid pace a) GPS b) R.S. c) GIS d) All of above | |
| Q.2 | Define topology? Describe types of topology. | 14 |
| Q.3 | Explain types of projection. | 14 |
| Q.4 | Define GIS? Advantages of GIS. | 14 |
| Q.5 | Write short notes on: 1) History of GIS 2) Raster data model | 14 |
| Q.6 | Write in brief on: 1) UTM 2) DBMS | 14 |
| Q.7 | Write small account on: 1) Vector Data Structure 2) GPS | 14 |
| | | |

| Seat | |
|------|--|
| No. | |

M.Sc. Geoinformatics (Semester-II) New (CBCS) Examination, 2017 Digital Image Processing

| | | Di | gital Image Pr | ocessing | | |
|------|--------|---|--|--|---|----|
| Day | & Da | te: Monday, 24-04- | 2017 | | Max. Marks: | 70 |
| Time | : 10.3 | 30 AM to 01.00 PM | I | | | |
| | | Instructions | 2) All Question I3) Question I4) Attempt all | ny Five Question ons carry equal r No.1 is Compuls ny two from Q. Nony two | narks. ory. IO. 2,3 and 4 | |
| Q.1 | A | | r are not belongs neric error | s to the radiometor B) Missing sca D) Random no | an line | 14 |
| | | _ | eases the contra | | · · | |
| | | 3) In data together.a) DIP | · | ls in all bands are | e written d) BIL | |
| | | , | atic neric | B) Non-Syster D) None of ab | matic ove | |
| | | 5) In emp sharpen the ed | | c) BIP | d) BIL | |
| | | 6) errors of A) Commis C) Kappa | | on diagonal colun B) Omission D) All of the al | | |
| | | A) Contrast | e objects in the | | n | |
| | | 8) Errors in the in A) RMS err C) Rectifica | or | wn asB) Kappa Coe | efficient | |

| | 9) Histogram minimum method is also known as | |
|----|---|----|
| | technique. A) Averaging B) Linear C) Dark Pixel subtraction D) Non-Linear | |
| | 10) In Digital Image, data record in the Digital Number per pixel called as | |
| | A) Brightness Value B) Picture C) Numerical Value D) RS Value. | |
| | 11) Is displayed by placing the infrared, red, green in the red, green and blue frame buffer memory. a) False Color composition (FCC) b) True Color Composition (TCC) c) Color Composition d) Non of above | |
| | Following error are not belongs to systematic Geometric error. | |
| | A) Earth Rotation B) Satellite Altitude C) Panoramic distortion D) Spacecraft Velocity | |
| | 13) is a widely used decision rule based on simple Boolean "and/or" logic. A) Maximum Likelihood Classifier B) Parallelepiped Classifier Algorithm C) Minimum Distance to Means Classifier D) None of these | |
| | 14) NDVI, RVI and TVI is one of the Image enhancement methods called as A) Spatial Filtering B) Contrast Stretching C) Band Radioing D) Edge Enhancement | |
| Q2 | Discuss the importance of image Enhancement? Explain the image enhancement methods in short | 14 |
| Q3 | What are radiometric errors? Explain the atmospheric errors and errors removal process? | |
| Q4 | What is contrast stretch? Apply linear contrast stretching method and rearrange the DN value of the following image. 80 15 25 65 35 20 30 45 70 20 30 45 40 60 50 35 | 14 |
| Q5 | Write Short Note on a) Errors Matrix | 14 |
| | b) Band Combination | |
| Q6 | Write in brief on a) Satellite Attitude and Altitudeb) Histogram Equalization | 14 |
| Q7 | Write small accounts on a) BSQ b) Systematic Errors | 14 |

| | | | | SLR-RM - 567 |
|-------------|---|--|--|---|
| Seat No. | | | | |
| G | eoinformatics (Se | emester – III) (N SPATIAL AI | | Examination, 2017 |
| Day 8 | Date: Tuesday, 18 | -04-2017 | | Max. Marks: 70 |
| Time: | 02.30 PM to 05.00 | PM | | |
| | 5 | the question p 4) Answer any tw 5) Answer any tw | carry equal ma c ompulsory an apers vo essay quest o short note qu | arks. Ind should answered in tions from 2, 3 & 4 the stion from 5, 6 & 7 the swhenever necessary. |
| Q.1 | Fill in the blank w 1) Intersection operation Boolean operation a) AND b) | eration can be dor | ne with the help | |
| | 2) is following a) Alpha b | g method used fo) Gamma | | |
| | The first order conthe direct conthe direct contant a) C₁ matrices C₃ matrices | nnection between | nodes. | s |

| 4) | elevation, ten | 5 | nect points of equitation of | ual value, such as or atmospheric |
|----|-----------------------|---------------------|------------------------------|--------------------------------------|
| | pressure. a) Nodes | b) Contours | c) Polygon | d) None of these |
| 5) | than the vector | or model. | · | ons more efficiently |
| | a) Boolean | b) Fuzzy | c) Statistical | d) Overlay |
| 6) | is a miterrain. | ulti-layer functior | that analyzes vi | sibility based on |

7) To eliminate unwanted boundaries between map features after

b) Viewshed

a) Slope

join operation is called _____ a) Merge b) Dissolve c) Buffer d) Georefrancing

c) Aspect

d) Contour

SLR-RM - 567

| 8)refers to the correlation of | a time series with its o | wn past |
|--|---|-----------|
| and future values. a) Geocoading | b) Autocorrelation | |
| c) IDW | d) Krigging | |
| -, | 7 33 3 | |
| 9) is defined by a plane tange | | |
| a) Aspect b) Slope | c) Snadow d) | Hillsnade |
| 10) means every feature in ev | ery layer is incorporate | ed into |
| output coverage. | | |
| a) Identityc) Intersection | b) Uniond) None of these | |
| c) intersection | d) None of these | |
| 11) Maximum number of link required | d for complete one circ | uit |
| a) 2 b) 3 | c) 4 d |) 5 |
| 12) requires the processing of | of attribute data exclus | ive of |
| spatial information. | | 110 01 |
| a) Spatial query | b) Attribute query | |
| c) GPS query | d) Surface query | |
| 13) involves the processing of | f spatial data in a spec | ial |
| regularly spaced form | | . — |
| a) Grid Analysisc) Print Pattern Analysis | b) Surface Analysis | |
| c) Print Pattern Analysis | d) None of these | |
| 14) Surface analysis deals with spati | al distribution of surfac | e: |
| information in terms of stre | ucture. | |
| a) Three dimentionalc) Two dimentional | b) Surface | _ |
| c) I wo dimentional | a) None of the above | 3 |
| Describe grid based operations. | | 14 |
| | | |
| What is mean by surface analysis? E | explain the detail of DE | M. 14 |
| Describe types of spatial models. | | 14 |
| _ cooms types on openion measure | | |
| Write short note on: | | 14 |
| Overlay Operation Zonal & Global Operations | | |
| 2) Zoriai & Giobai Operations | | |
| Write in brief on: | | 14 |
| 1) NNI | | |
| 2) C matrices | | |
| Write small account on: | | 14 |
| 1) IDW | | |
| 2) Clip and Intersect | | |

Q.2

Q.3

Q.4

Q.5

Q.6

Q.7

| | SLR-RM – 568 |
|-------------|---|
| Seat No. | |
| l . | .(Geoinformatics)(Semester – III)(New) (CBCS) Examination, 2017 ADVANCED TECHNIQUES IN REMOTE SERVISING |
| Day 8 | Date: Thursday, 20-04-2017 Max. Marks: 70 |
| Time: | 02.30 PM to 05.00 PM |
| | N.B.: 1) Answer any five questions. 2) All questions carry equal marks. 3) Question 1 is compulsory and should answered in the question papers 4) Answer any two essay questions from 2, 3 & 4 5) Answer any two short note question from 5, 6 & 7 6) Draw neat & labeled diagrams whenever necessary. |
| Q.1 | Fill in the blank with appropriate choice: |
| | Identity the wave length range of microwave partion of the spectrum. |
| | a) 1 mm to 1m b) 2.5 mm to 4 m c) 5 mm to 7 m d) None of these |
| | 2) RADAR was first investigated by a) C.V. Raman 1904 b) Taylor and young 1922 c) Homi Baba 1964 d) Vikram Sarabai (1972) |
| | 3) The aircraft travel in a straight line that is termed as a) Azimuth flight b) Horizontal flight c) Vertical flight d) None |
| | 4) Passive remote sensing record energy that is reflected or emitted from the earth surface. a) Solar b) Kinetic c) Passive d) electromagnetic |
| | 5) Identity the instrumental method to measure the surface wind speed and direction of the ocean surface using space borne platform.a) Radiometer b) Scattrometer c) Thermometer d) Micrometer |
| | 6) A two or three dimensional graph in which observations made in different bands are plotted against each other to called a) Histrogram b) Pie diagram c) Feature space plot d) Scatter plot |
| | 7) An aerial photograph may be assumed as projection. a) Parallel b) Orthogonal c) Central d) Polyconic 8) IRS-P5 was launched on |

| | a) May 5th , 2005 c) May 26th , 1999 | b) October 17 th 2003 d) None | |
|-----|---|---|----|
| | 9) Which of the following country ha a) U.S.A. b) India | s launched RADARSAT? c) Japan d) CANADA | |
| | 10) contains elevation information | ion about all features in the | |
| | a) DTM b) DEM | c) TIN d) DSM | |
| | 11) SAR stands fora) Signal aperture radarc) Sound aperture radar | b) Synthetic aperture radard) None | |
| | 12) The energy of particles of molec calleda) Kinetic heatc) Black body | ular matter in random motion is b) Emissivity d) None | |
| | 13) is a technique that is usef classification of data. | ul for the compression and | |
| | , | pervised d) Unsupervised | |
| | 14) All object like vegetation, soil, ro electromagnetic radiation in the a) 0.3 μm to 14 μm c) 0.4 μm to 0.7 μm | | |
| Q.2 | Discuss in detail microwave remote applications. | sensing and throw light on its | 14 |
| Q.3 | Enumerate the salient aspects of the properties. | ermal infrared and its radiation | 14 |
| Q.4 | Describe in detail color transformation related to digital processing. | on and image fusion techniques | 14 |
| Q.5 | Write short note on: 1) Active and passive remote sensir 2) Radar operating principles. | ng | 14 |
| Q.6 | Write in brief on: 1) Relief displacement 2) SEASAT | | 14 |
| Q.7 | Write small account on: 1) Principle component analysis 2) Atmospheric transmission | | 14 |

| Seat | |
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| No. | |

| Geoin | • | ED TECHNIQUES IN GIS. | |
|-------------------------------|---|--|---|
| Day & Date: Sa | turday, 22-04-2017 | Max. Marks: 70 | |
| Time:02:30 PM | to 05.00 PM | | |
| | 2) All Qu 3) Questi 4) Answ 5) Answ | rer any Five Questions uestions carry equal marks ion No. 1 is Compulsory er any two essay question from 2,3,4 er any two short note question from 5, 6, 7. neat & lasted diagrams wherever necessary. | |
| 1) Display importa a) V | e blanks with appropriate blanks with appropriate when application of Wed GTS Interpolation | nich used can pan or zoom white online is an b) Enterprise Resource planning | 4 |
| data is a) I | ting of interesting past known as Data generation Data processing | | |
| • | | method of interpolation urate c) Local d) none | |
| geasta a) I | _ is a particular type tistical techniques. Extraction Krigging | e of local interpolation using more unvanced b) Overlay d) None | |
| a) | epresents mathematical Geomorphological | information in the form of text. b) Geological d) Geographic | |
| 6) | is not a type of g | geodatabase eo c) Personal d) Arc SDE | |
| a) ` | ercial web mapping Yahoo map Google map | g application such as b) Bing map d) All of the above | |
| a) | al neural Network d Biological Culture | leveloped based on b) Social d) Political | |

| | 9) ERP stands fora) Enterprise reserve processc) Entertrct reciving process | b) Enquire related processd) Enterprise resource playing | |
|-----|--|---|----|
| | 10) The data derived from any what the real values should be at a a) Arc swath b) Geoprocessing | particular location. | |
| | 11) ESRI stands fora) Environmental Service Researchb) Entertain Save Record institute.c) Environmental Source Researchd) None | | |
| | 12)TIN stands fora) Trangle investigation Networkc) Triangular inverse number | | |
| | 13) A digital elevation model is a digital of terrains surface.a) 2Db) 3D | l model or representation c) 4D d) None | |
| | 14) AHP stands fora) Analytic High parameterc) Analytic Hammer process | · · · · · · · · · · · · · · · · · · · | |
| Q.2 | What is Importance of multi-criteria de sciences? | cision analysis in geospatial | 14 |
| Q.3 | Describe Recent trends in GIS? | | 14 |
| Q.4 | Give an account of Interpolation & git's | s Explain types? | 14 |
| Q.5 | Write short note on:- a) Personal Geodatabase b) IDW | | 14 |
| Q.6 | Write a brief in :- a) Spatial clustering b) Advantages of DSS | | 14 |
| Q.7 | Wire small account on a) ANN b) Web GIS | | 14 |
| | | | |

| Seat | |
|------|--|
| No. | |

M.Sc.(Geoinformatics)(Semester – III)(New) (CBCS) Examination, 2017 Introduction to Statistical Methods

| | | Statistical Methods |
|------|--|--|
| Day | & Date: Tuesday, 25-04-2017 | Max. Marks: 70 |
| Time | e: 02.30 PM to 05.00 PM | |
| | 3) Question 1 the question 4) Answer any 5) Answer any | ns carry equal marks. is compulsory and should answered in |
| Q.1 | Fill in the blank with appropriat | |
| | 1) The origin of statistics can be t | |
| | a) Statec) Economics | b) Commerced) Industry |
| | in termed as a) Human error c) Non-sampling error | e estimate and population parameter b) Sampling error d) None of the above ess interval and frequency is known |
| | a) Histogram | b) Frequency polygon |
| | c) Cumulative frequency | d) Relative Distribution |
| | 4) A selection procedure of a san probability is known as a) Purposive Sampling c) Subjective Sampling | nple having no involvement of b) Judgment Sampling d) All of the above |
| | 5) Which of the following represea) First Quartilec) Sixth Decile | nts the medium? b) Fiftieth Percentile d) Third Quartile |
| | 6) The middle value of an ordered a) 2nd Quartile c) 50th percentile | d series is called b) s d) All of the above |
| | 7) The total frequency of all value of a given class interval is called | es less than the upper class boundary |

| | a) Distributionc) Cumulative8) The mean ofa) Standard ofc) Mean Deri | e Frequency squared deri derivation | vation a | d) N about b) \ | lone of t | the ab an is o | ove called | | _ | |
|----------|--|---|-----------------------------|------------------------|------------------------------|-------------------|---------------|---------------|-------|----|
| | 9) For a negative a) Mode < M c) Mean < M | edian | | b) [| e follow Mean < Mean = | Media | an | | - | |
| | 10) Limits for cor a) $-1 \le r \le 1$ | relation coef $1 b) 0 \le r$ | ficient ₋ < 1 | c) – | _ ·1 ≤ <i>r</i> ≤ | ≦ 0 | d) | $1 \le r \le$ | 2 | |
| | 11) The mean of the mean is a) 5 b) | | | | | | | | l | |
| | 12) If the numbe the position. | | | | an the m $\frac{N}{2} + 1$ | | | | in | |
| | a) $\frac{N+1}{2}$ | 2 | | | 2 | | | 2 | | |
| | 13) In a dis mean and it a) Mesokurtic c) Platykurtic | has a sharp _l | | b) L | rvation _eptoku Skewku | rtic | er nea | ar the | | |
| | 14) If r = 0 then t a) 0 | the cov(x, y) b) - 1 | is | _ c) | 1 | | d) | 0.2 | | |
| Q.2 s | What is Samplin | g? Explain di | ifferent | types, | , their m | erits | and o | demerits | S. | 14 |
| Q.3 | What are the diff Pearson's coeffice different location | cient of corre | | | | | | | f | 14 |
| | Location (X) | 1 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | Rainfall (mm) | 200 400 | 1280 | 300 | 320 | 500 | 800 | 1200 | 1000 |) |
| Q.4 | Compute the sta | | | | | artile | of th | e marks | 5, | 14 |
| | Marks | 30-39 40- | | 0-59 | 60-69 | _ | -79 | 80-89 | 90-10 | 10 |
| | No. of students | 1 2 | <u>′</u> | 11 | 21 | 4 | 3 | 32 | 9 | |
| Q.5 | Write briefly about 1) Errors 2) Arithmetic Me | | | | | | | | | 14 |
| Q.6 | Write in brief or 1) Median 2) Quartiles | 1 : | | | | | | | | 14 |
| Q.7 | Write short note 1) Skewness 2) Range | es on: | | | | | | | | 14 |

| Seat | | | | SLR-RM - 5 | 572 |
|------|---|---|--|---------------------------|-----|
| No. | | | | | |
| M | Sc.(Geoinformatics) (INFORMATIO | | IV) (OId) (CGPA LOGY & MANA | = | 7 |
| Day | & Date: Wednesday, 19-0 |)4-2017 | | Max. Marks: 70 | l |
| Time | e: 02.30 PM to 05.00 PM | | | | |
| | 2) A 3) Qu 4) Ar 5) An 6) dra | All question causion to causion 1 is consider any two swer any two swer any two | ve questions . arry equal marks. ompulsory . o essay questions o short note questions obeled note diagra | ons from 5, 6, 7 . | |
| Q.1 | Fill in the blanks: 1) The process of converge processed by a receival modulation converge converge processed by a receival modulation converge converge processed by a receival modulation converge | | _ | ation | 14 |
| | 2) The standard protocoa) TCP/IP3) Which generation of | b) DSL computer is s | c) OSI till under developr | | |
| | a) Fourth Generation c) Sixth Generation 4) INTERNIST is a) Internet surfing | tool. | b) Second (d) Fifth Gerb) Mineral e | eration | |
| | c) Medical diagnosis 5) C is a Lan a) High Level b | guage.) Low Level | d) Net speec) Middle Level | · | |
| | 6) Data by itself is not ua) It is massiveb) It is processed toc) It is collected from | obtain informa | | | |

7) As per the NASSCOM survey of the ten states for 2002-2003, a total

b) Rs. 3 Million c) Rs. 3 billion d) Rs.3.5 Million

d) It is properly stated

a) Rs. 3.5 billion

8) ISP stands for_____

a) Internet service providerb) Internal service Provider

budgetary allocation was about_____

| | c) Internet security p | | | | |
|-----|--|---|------------------------------|-------------------|----|
| | 9) The extensions .gov | , .edu and net a | | to va o to | |
| | a) DNSsc) Domain codes | 3 | b) E-mail to | _ | |
| | , | | • | | |
| | 10) "microprocessor" and a) Desktop | d "Memory" are | the important c b) System | | |
| | c) Input Devices | | d) Output | | |
| | 11) The budgetary supplin 2002-2003 | oort for IT projec | ts of | state was highest | |
| | a) Maharashtra | | b) Kerala | | |
| | c) Arunachal Pr | adesh | d) Karnata | aka | |
| | requirements relate a) CISC b) Control Unit Proc c) Arithmetic- logic d) Graphics Coproc | d to displaying a cessors Unit Processors | and mainpulatio | | |
| | 13) The World Wide We a) 1994 | eb (WWW) was b) 1992 | | | |
| | 14) is a mea | surement of the | capacity of the | communication | |
| | a) Bandwidth | b) Broadband | c) Bytes | d) speed | |
| Q.2 | What is strategic planni in strategic planning. | ng? Explain Goa | als, objectives a | and methodologies | 14 |
| Q.3 | What is Information Tec Technology on Develop | • • • | • | of Information | 14 |
| Q.4 | Explain Information Sysfor knowledge work. | tem? Write a de | etailed note on I | nformation System | 14 |
| Q5 | Write brief account on a) types of networking b) programming Langu | | | | 14 |
| Q.6 | Write short note on: a) TPS b) E-publishing | | | | 14 |
| Q.7 | Enumerate the following a) EIS and office autom b) IT audit | _ | | | 14 |

| Seat No. | |
|-------------|------------------------------|
| No. | |
| M.S | c. (Geoinforma Geoinforma |

M.Sc. (Geoinformatics) (Semester – IV)(Old) (CGPA) Examination, 2017 Geoinformatics Approach Natural Resource Management

| | Geoinformatics Approach Natural Resource Management | |
|------|---|----|
| Day | & Date: Friday, 21-04-2017 Max. Marks: 70 | |
| Time | e:02:30 PM to 05.00 PM | |
| | N.B.: 1) Answer any Five Questions 2) All Questions carry equal marks 3) Question No. 1 is Compulsory 4) Answer any two essay question from 2,3,4 5) Answer any two short note question from 5,6,7. 6) Draw neat & lasted diagrams wherever necessary. | |
| Q.1 | Fill in the blanks with appropriate choice | 14 |
| | 1) Geostationary satellites are ideal for a) Land mapping b) Meteorology c) Communication d) None of these | |
| | 2) Which of the following is user friendly software for image processing | |
| | a) ERADAS IMAGINE b) ILWIS c) WEKA d) GEOMEDIA | |
| | Arc GIS native file formal is a) .dwg b) .shp c) .coverage d) .tiger | |
| | 4) The SPOT satellites are sun synchronous satellite orbits at heighta) 832 kmb) 900 kmc) 850 kmd) 890 km | |
| | 5) is the high resolution imagine satellite. a) EO-1 b) IKONOS c) World View-2 d) Quick bird | |
| | 6) Full form of TIN is a) Triangulated Irregular Net b) Triangulated Irregular Network c) Triple Irregular Network d) None of the above | |
| | 7) Temporal resolution of IRS-LISS-II P6 satellite is a) 20 day b) 24 day c) 27 day d) 35 day | |
| | 8) IRNSS stands for a) Indian Research Navigation Space System b) Indian Regional Negative space System c) Indian Regional Navigation Satellite System d) None of these | |

| | 9) wavelength can penetrate clouds. a) Optical b) Thermal c) Microwave d) All the above | |
|-----|---|----|
| | 10) is the direction that a slope faces. a) Aspect b) Slope c) Shadow d) Hillshade | |
| | 11) is a process of using points with known values to estimate values at other points. a) Interpolation b) Distribution c) Fractual d) None of these | |
| | 12) approximates the surface with a series of non overlapping triangles. a) DEM b) TIN c) DTM d) None of these | |
| | 13) band is useful measurement of urban heat. a) Visible b) Microwave c) Thermal d) Infrared | |
| | 14) is following satellite series concerned with Japan a) IRS b) Spot c) Thermal d) infrared | |
| Q.2 | Explain the details application of R.S and G.I.S. in forest with one case study. | 14 |
| Q.3 | Wow landsat data is useful for wildlife habit suitability analysis studies? Give one case study. | 14 |
| Q.4 | Which satellite data useful for SST mapping and explain with the help of case study. | 14 |
| Q.5 | Write short note on:- a) Ocean colour mapping b) Ground water zone mapping | 14 |
| Q.6 | Write a brief in :- a) Soil types b) Marine ecology | 14 |
| Q.7 | Wire small account on:- a) Watershed management b) Potential fishing zone | 14 |

| | SLR-RM - 574 |
|-------------|---|
| Seat No. | |
| | Sc. (Geoinformatics)(Semester – IV)(Old) (CGPA) Examination, 2017 APPLICATIONS OF REMOTE SENSING & GIS |
| Day 8 | & Date: Monday, 24-04-2017 Max. Marks: 70 |
| Time | :02:30 PM to 05.00 PM |
| | N.B.: 1) Answer any Five Questions. 2) All Questions carry equal marks. 3) Question No. 1 is Compulsory. 4) Answer any two essay question from 2,3,4. 5) Answer any two short note question from 5,6,7. 6) Draw neat & lasted diagrams wherever necessary. |
| Q.1 | Fill in the blanks with appropriate choice 1) Water indicate color in FCC. a) Black b) Blue c) Both A & B d) None of the above |
| | 2) NDWI means a) Normalized Differential Wetland index b) Normalized Differential Wastewater index c) Normalized Differential Water index d) normalized Differential Weather index |
| | 3) Find the odd one a) Tone b) Pattern c) Texture d) Tenacity |
| | 4) Plantation shows Texture. a) Rough b) Both A & B c) Smooth d) None of the above |
| | 5) Large scale map is known as a) Atlas map b) Cadastral map c) Base map d) None of the above |
| | 6) geomorphic feature is NOT possible to identify in the satellite image. a) Major folds b) Minor folds c) Lineaments d) Mountain regimes |
| | 7) can be monitored or predicated through Remote Sensing. a) Landslide b) Earthquake c) Rainfall d) Tsunami |
| | 8) is the Spatial resolution of pan band of landsat-7. a) 30m b) 23-5m c) 17m d) 15m |

_____ sensor will help in the detection of surface of surface

c) None

b) Visible range

temperature

a) Microwave

Page **1** of **2**

d) Thermal IR

| | 10) file format can read by Google Earth. a) .kml b).dwg c) .shp d) .gem | | | | | | |
|---|--|----|--|--|--|--|--|
| | 11)CAPE means a) Crop Average and Production Estimation b) Crop Acceleration and Production Estimation c) Crop Acerage and Production Estimation d) All of the above | | | | | | |
| 12) is the best resolution to understand the exact shape of the | | | | | | | |
| | feature. a) b) Temporal c) Spectral d)Rediometric Spatial | | | | | | |
| | 13) is the basic requirement for drainage pattern extraction. a) OCM b) DEM c) Both A and B d) DSM | | | | | | |
| | 14) region of the visible band is best suited for Crop Discrimination. a) Green b) Blue c) Red d) Yellow | | | | | | |
| Q.2 | Applicable of RS and GIS Geomorphology. | 14 | | | | | |
| Q.3 | Write a case study related to Geosciences. | 14 | | | | | |
| Q.4 | Mapping and analysis for Landslide and Tsunami hazard | 14 | | | | | |
| Q.5 | Explain the following: a) Spectral characters of crop b) Basin Analysis | | | | | | |
| Q.6 | Explain the following: a) In-site Reflectance b) Urban Land use classification | 14 | | | | | |
| Q.7 | Explain the following a) Natural and Manmade disasters b) Crop water management | 14 | | | | | |
| | | | | | | | |

| Seat | |
|------|--|
| No. | |

| M.S | c.(Geoinformatics) (Semester – IV)(New) (CBCS) Examination; GEOINFORMATICS APPROACH FOR NATURAL RESOURCI MANAGEMENT | |
|-----|---|--------|
| Dav | & Date: Wednesday, 19-04-2017 Max. Mark | rs: 70 |
| • | e:02:30 PM to 05.00 PM | .5. 70 |
| | N.B.: 1) Answer any Five Questions 2) All Questions carry equal marks 3) Question No. 1 is Compulsory 4) Attempt any two from Q.NO.2, 3,and 4 5) Attempt any two from Q. NO.5,6 and 7 | |
| Q.1 | Select the answer among the following: 1) Which of the following remote sensing data is used for the generation of river network? a) DEM b) Landsat c) SAR d) None of the above | 14 |
| | Basically base map is prepared using a) Toposheet | |
| | 3) Which of the following satellite launched by NASA for soil moisture measurement a) SMAP b) ASTER c) LANDSAT d) None of these | |
| | 4) What is metadata? a) It is 'data about data' b) It is 'metrological' data c) It is 'Oceanic' data d) It is 'Contour' data | |
| | 5) A structurally distinct geographical space, which is kilometers wide is called a a) Ocean surface b) Landscape c) Salty land d) None of the above | |
| | 6) Which one of basic characteristics of landscape that affects on the diversity.a) Structure b) Base c) Elements d) None of the above | ir |
| | 7) In case of reflection and refrection of electromagnetic radiation a) Angle of incidence = angle of refraction b) Angle of refraction = Sum of the angles of incidence and refraction c) Angle of incidence = angle of reflection d) All of the above | n |

| | 8) The instrument which measure bia) Barometer | directional reflectance is called b) Goniometer | |
|-----|---|---|----|
| | c) Hygrometer | d) None of the above | |
| | If high spectral and radiometric remay be possible to differentiate be | | |
| | a) Plants and animal speciesc) Both | b) Soils with soil textured) None of these | |
| | 10) Smaller the local surface roughne incident radiation greater the | ess relative to the size of the | |
| | a) Incident radiationc) Transmission of radiation | b) Specular spectral reflectanced) None of the above | |
| | 11) The total reflectance leaving the s | · | |
| | a) Interstitial spacesc) Ratio | b) Internal volume reflectanced) None of these | |
| | 12) Mapmakers use GIS to a) Store geographic information b) View geographic information c) Use geographic information d) Store, use, View geographic in | nformation | |
| | 13) If the surface soil salt concentrationalso | on increases generally reflectance | |
| | a) Decreasesc) Neither increases nor decrease | b) Increases ses d) None of these | |
| | 14) Relative Observations of the sam useful to monitor the dynamic phenomena.a) Snow coverc) Vegetation cover | • | |
| Q.2 | Explain in details morphometric anal | ysis? | 14 |
| Q.3 | Describe Hydrological cycle. Explain various part of this cycle. | briefly humankind's interference in | 14 |
| Q.4 | Enumerate the uses of Remote Sens | ing in soil resources mapping. | 14 |
| Q.5 | Write a short note on: a) Use of remote sensing for idention b) Role of Spatial resolution in fore | • | 14 |
| Q.6 | Write a brief with suitable illustrati a) Brief about the role of RS and G b) Concept of Water resources | | 14 |
| Q.7 | Write an account on: | | 14 |

- a) Landscape ecologyb) Coastal Bathymetry

| Seat | |
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| No. | |

M.Sc. Geoinformatics (Semester – IV) (New CBCS) Examination, 2017 APPLICATION OF REMOTE SENSING AND G I S IN DISASTER MANAGEMENT

| | | | | MANAGE | MENT | | |
|-------|-------|-------|--|---|---|---|----|
| Day 8 | & Dat | te: F | Friday, 21-04-201 | 17 | | Max. Marks: 70 | |
| Time: | 02.3 | 30 F | PM to 05.00 PM | | | | |
| | | | 2) A 3) Q. 4) At 5) At | nswer any five II questions ca no. 1 is comp tempt any two tempt any two w neat sketch | nrry equal mai nulsory. ofrom Q. no. 2 from Q. no. 5 | 2, 3 and 4. , 6 and 7. | |
| Q.1 | A) | | I l in blanks with Most earthquak a) Mumbai | ke prone area i | n India. c) Ahmadab | ad Guwahati | 14 |
| | | 2) | Drought is brou sources such a statistical avera a) Hydrological c) Agriculture D | s aquifers, lake ige. Drought | es and reservo b) Metro | s available in oirs fall below the logical Drought the above | |
| | | 3) | Dust blow will ca) Tsunamic) Volcanic acti | | b) Droug d) Eartho | ht conditions quake | |
| | | 4) | Zone 5 is the Zo | | b) Mediu | | |
| | | 5) | Temporal satellchange a) Population r c) Sea level ch | es. ise | b) Tsun | tion of ami effect the above | |
| | | 6) | To understand data will be help a) Temporal c) Both a and b | oful. | b) Spatia d) Radio | | |
| | | 7) | Uttara khand Fl a) 2015 | ash Flood tool b) 2013 | c in the year. c) 2014 | d) 2012 | |
| | | 8) | Desertification (| | easily detecte | ed using | |

| | • | Spectral Temporal | | • | diometric ne of the above | |
|-----|--------------------------------------|---|-------------------------------------|-------------------------|------------------------------------|-----|
| | 9) _ | · | will help in iden | · | of cyclone movemen | + |
| | | | | | NOS d) INSAT | |
| | atr co | mospheric pre unterclockwis | | e in the No n Hemisp | | - |
| | • | Cyclone Anticyclone | | , | pical cyclone otropical cyclone | |
| | • | | llowing is the gre Vater vapor | | gas? d) Both a and | i b |
| | Pa | he Tropical Cy acific are know Thunderstorn | n as | b) Тур | | า |
| | c) | Tornadoes | | d) All t | he above | |
| | a) | ebris flow is th Drought Landslide | ne term related t | | a level movement oding | |
| | a) | | responsible for ation rs | b) Mel | _ | e |
| Q.2 | Write a not study on c | | esponsible for c | /clone an | d GIS based case | 14 |
| Q.3 | Explain the Earthquake | • | surement and ca | auses res _l | ponsible for | 14 |
| Q.4 | Write a no | te on marine o | disasters. | | | 14 |
| Q.5 | 1) Drought | e following. t prone zones and chemical | | | | 14 |
| Q.6 | Write in boat 1) Major di 2) Type of | isasters in Ind | ia. | | | 14 |
| Q.7 | , | lization of wat | er and land resc with case study | | | 14 |

| Seat | |
|------|--|
| No. | |

M.Sc. Geoinformatics (Semester-IV) New (CBCS) Examination, 2017 INFORMATION TECHNOLOGY AND MANAGEMENT

| INFORMATION TECHNOLOGY AND MANAGEMENT | | | | | | | | | |
|---------------------------------------|---|---|---|--|--|--|--|--|--|
| - | ate: Monday, 24-04-2017 | Max. Marks: 70 | | | | | | | |
| | N:B: 1) Answer any 2) All Question 3) Question NO 4) Attempt any | r five questions. s carry equal marks D. 1 is Compulsory two from Q.No.2, 3 and 4 two from Q. No. 5 , 6 and 7 | | | | | | | |
| Q.1 A) | Select the answer among the feat 1) ANSI stands for | d instruction codes d institute. codes. struction codes. n the binary number | 1 | | | | | | |
| | a) Decimal system | b) Hexadecimal system d) No need to convert accerned with technical problems b) Executive Managers | | | | | | | |
| | 4) An information system that su assessment needs of executive a) DSS b) TPS c) 5) The file extension is VB No. asp b) .aspx | ve management is ERP d) None of theses Net represents a web from | | | | | | | |
| | 6) The function of operating syst a) Managing resources c) Running applications | tem includesb) Providing user interface | | | | | | | |
| | , , , | creen? b) Echo "\\n" d) Printf("\\n"') | | | | | | | |

| | 8 | 3) A | performs in a) Destructor c) Constructor | | b) | ven if u wri Private me Function | | ode. | |
|----|---|--|---|----------------------------|----------|--|-------|-----------|----|
| | g | 9) WI | MV stands for a) Window me c) Write many | edia vide | • | Write medi Write medi | | | |
| | 1 | 10) What is full from of TCP? a) Transmission control protocol b) Transfer control protocol. c) Transmission control protocol. d) Transmission control process. | | | | | | | |
| | 1 | 11) of the following keywords are used to control access to a class member? a) Protected b) Witch c) Goto d) For | | | | | I | | |
| | 12) How would you round off a value from 1.66 to 2.0? a) Ceil(1.66) b) Floor (1.66) c) Roundup(1.66) d) Roundto(1.66) | | | | | | | | |
| | 1 | 13) rur | Of the ntime what method a) Data hiding c) Dynamic bi | hod to invok | e? b) | Dynamic T | yping | mining at | |
| | 1 | • | of the fo | llowing is ar b) Double | | | • • | d) Class | |
| Q2 | Write different kinds of information technology on society? | | | | | | | 14 | |
| Q3 | - | Explain the E-governance? and discuss about the trade of E-Commerce? | | | | | | | |
| Q4 | | Define DSS and explain the benefits of DSS and their impact of the lecision making processes? | | | | | | | 14 |
| Q5 | a) e | , and the second | | | | | | | |
| Q6 | Write a brief on a) Programming languages b) Information system | | | | | | | 14 | |
| Q7 | a) A | | an account on: ntages and disa | | of h | aking | | | 14 |