

## B.A./B.Sc. 3rd Semester (Honours) Practical Examination, 2019 (CBCS)

## Subject : Geography

## Paper : SEC-I

## (Computer Basics and Computer Application)

Time: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.*

## SET-II

*Answer all questions.*

1. (a) Convert the decimal number 6.74 to binary equivalent. 2  
 (b) Mention the use of internet surfing. 2  
 (c) Following table-1 shows the monthwise rainfall (mm.) of Bardhaman District, 2018.

Month	Jan.	Feb.	March	April	May	June
Rainfall (mm.)	0.1	0.2	15.1	82.6	43.5	158.1
Month	July	August	Sept.	Oct.	Nov.	Dec.
Rainfall (mm.)	329.7	174.7	154.3	16.0	0.1	26.7

- (i) From the above Rainfall data (Table-1) calculate 'Rank'. (using MS-Excel) 2  
 (ii) Calculate the Mean and Median from the above data (Table-1). 2+2=4
2. (a) The following figures are given relating to the output in a factory:

Year	Output (Unit)
2001	600
2002	800
2003	100
2004	800
2005	1200
2006	1000
2007	1400

- (i) Draw a time series graph from the above data. 4  
 (ii) Compute and draw a trend line by 3 year moving average method. 4

(b) What is internet surfing? 2

3. (a) Draw a scatter diagram and fit a trend line with equation by using the data presented in Table-3 3+2=5

**Table-3**

Village	% of ST Popu.	% of Agri. Land
Kudna	16	12
Pardi	68	21
Sukridabha	100	2
Ekna	23	28
Tikartanu	79	29
Sankupi	25	43
Charkapathar	95	19

(b) Draw a Histogram (% of village, 1971) and line graph (% of village, 2011) using data given in Table-4 2½+2½=5

**Table-4**

% of Agri. Land	% of Village, 1971	% of Village, 2011
0 – 10	4.23	2.12
10 – 20	9.15	8.8
20 – 30	13.38	15.15
30 – 40	11.27	9.15
40 – 50	9.86	9.86
50 – 60	7.75	9.15
60 – 70	6.34	8.1
70 – 80	16.2	17.61
80 – 90	10.56	11.62
90 – 100	11.27	8.44

4. Project Report and Viva voce

5+5=10

**B.A./B.Sc. 3rd Semester (Honours) Practical Examination, 2019 (CBCS)**

**Subject : Geography**

**Paper : SEC-I (OR)**

**(Remote Sensing)**

**Time: 2 Hours**

**Full Marks: 40**

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words  
as far as practicable.*

**SET-II**

*Answer all questions.*

1. (a) What is 'DN' value? 2
  - (b) What are the differences between spectral resolution and temporal resolution. 4
  - (c) Mention the spectral bands and with their wavelength of landsat-1, 2 and 3 (MSS) satellite. 4
  2. (a) Georeference the given toposheet assigning the projection parameters (EPSG: 4326) using QGIS. 3
  - (b) Extract two physical and two cultural features from the Georeferenced toposheet. 4
  - (c) Prepare an output map in JPEG format. 3
  3. (a) Extract land use and land cover features by digital image classification from the given satellite image. 7
  - (b) Make an output by 'Print Composer': 2
  - (c) Export in 'JPEG' format. 1
  4. Project Notebook and Viva voce 5+5=10
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