

**Bharati Vidyapeeth**  
**(Deemed to be University), Pune**  
**School of Distance Education**

<b>Assignment No.</b>	<b>01</b>	<b>Name of the Assignment Setter:</b>		<b>Dr. Mrs. S.V. Deshmukh</b>	
<b>Course:</b>	<b>2018 Course</b>	<b>Class:</b>	<b>BCA</b>	<b>Semester:</b>	<b>III</b>

<b>Subject:</b>	<b>Statistics</b>
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**Q.1) Attempt ANY ONE of the Following (1000 Words) (10)**

- a) Explain the importance of statistics in various fields.

The following frequency distribution gives the masses of 48 objects measured to the nearest gram. Draw a histogram to illustrate the data.

b)

<b>Mass (g)</b>	10 – 19	20 – 24	25 – 34	35 – 50	51 – 55
<b>Frequency</b>	6	4	12	18	8

**Q.2) Attempt ANY TWO of the Following (800 Words) (12)**

- a) Prepare a frequency distribution table taking class interval as 20-24,25-29,30-34 and so on from the following data:

<b>21</b>	<b>20</b>	<b>55</b>	<b>39</b>	<b>48</b>	<b>46</b>	<b>36</b>	<b>54</b>	<b>42</b>	<b>30</b>
<b>20</b>	<b>42</b>	<b>32</b>	<b>40</b>	<b>34</b>	<b>31</b>	<b>35</b>	<b>37</b>	<b>52</b>	<b>44</b>
<b>39</b>	<b>45</b>	<b>37</b>	<b>33</b>	<b>51</b>	<b>53</b>	<b>52</b>	<b>46</b>	<b>43</b>	<b>47</b>
<b>41</b>	<b>26</b>	<b>52</b>	<b>48</b>	<b>25</b>	<b>34</b>	<b>37</b>	<b>33</b>	<b>36</b>	<b>27</b>
<b>54</b>	<b>36</b>	<b>41</b>	<b>33</b>	<b>23</b>	<b>39</b>	<b>28</b>	<b>44</b>	<b>45</b>	<b>38</b>

- b) Find the mean, median and mode for the given data

x	4	5	6	7	8	9	10	11	12
f	15	18	20	22	25	19	15	12	10

- c) Compute mean deviation about Median Coefficient of mean deviation for the following data:

x	4	6	8	10	12	14	16	Total
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f	2	1	3	6	4	3	1	20
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d) Compute the Karl Pearson's coefficient of correlations from the following data:

Marks in Statistics (x)	20	30	28	17	19	23	35	13	16	38
Marks in Mathematics (y)	18	35	20	18	25	28	33	18	20	40

(08)

Q.3) Write Short Notes on (ANY TWO)

- a) Various components of time series
- b) Standard Deviation
- c) Regression Analysis
- d) Spearman's Rank Correlation

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