**< DE/EJ/ET/EN/EX/EQ/IE/IS/IC >: < 22636> : < Emerging Trends in Electronics >:< Recent Electronic Components >:**

**<UO2a.1:Describe the Flexible Printed Circuits and Flexible PCB making technology**.**>**

**<Assessments>: <Formative>**

**<Mrs. Vaishali Rajeshirke>**

|  |  |  |
| --- | --- | --- |
| **Set 1: Question No. 1** | **Set 1: Question No. 2** | **Set 1: Question No. 3** |
| 1. Printed circuit board are delivered from one place to other place in plastic or paper protection because of development of\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 1. Flex PCB design requires\_\_\_\_\_\_% of the space and weight of an ordinary circuit board assembly, | 1. Commonly used dielectric substrate material is\_\_\_\_\_\_\_\_\_ |
| **Recall/ Remembering** | **Understanding** | **Application** |
| a) Leakage current | a) 50 | a) Polyester |
| 1. Water drop | b) 20 | b) Rubber |
| 1. Dynamic charge | c) 10 | c) Mica |
| 1. Static Charge | d) 75 | d) Polymer |
| **Ans: (d)** | **Ans: (c)** | **Ans: (a)** |

|  |  |  |
| --- | --- | --- |
| **Set 2: Question No. 1** | **Set 2: Question No. 2** | **Set 2: Question No. 3** |
| 1. \_\_\_\_\_\_\_are the heart of Flexible Printed Circuits. | ii) \_\_\_\_\_\_\_\_\_\_\_material has excellent high temperature characteristics. | 1. Rigid-Flex Circuits boards are used in \_\_\_\_\_application for \_\_reliability. |
| **Recall/ Remembering** | **Understanding** | **Application** |
| 1. Dielectric PCBs | a) Phenolic | a) defence , high |
| 1. Flexible PCBs | b) Acrylics | b) defence , low |
| 1. Double sided PCBs | c) Polyimide | c)Space, low |
| 1. Single sided PCBs | d) Polyester | d)Space, high |
| **Ans: (b)** | **Ans: ( c )** | **Ans: (d)** |