**JSPM’s**

**Jayawantrao Sawant College of Engineering** (Roll No :……….)

**Department of Engineering Sciences**

**Unit Test II Examination AY 2024-25 SEM II**

**FE 2024 Pattern**

**Subject:** Engineering Graphics **(Subject Code: ESC-103-MEC)**

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***Date: 03/04/2024***

***Time: 2.30PM to 3.45 PM Max. Marks: 30***

***Instructions to the Candidate:***

1. ***Answer all the questions (Q1or Q2 and Q3 or Q4).***
2. ***Neat diagrams must be drawn wherever necessary***
3. ***Figures to the right indicate full marks.***
4. ***Assume suitable data wherever necessary.***

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| --- | --- | --- | --- | --- | --- |
| **Q. No.** | **Question Statement** | **CO** | **BL** | **PO** | **Marks** |
| **Q. 1.a** | Draw  the  locus  of  a  point  p  which  moves  in  such  a  way  that  the  ratio  is  always constant  & equal to  3/5. The fixed point is 50 mm away from the fixed straight line. Name the curve. | 3 | 1 | 1 | 7 |
| **Q. 1.b** | A pentagonal pyramid side of base 30 mm and axis 60 mm long is kept on HP in such a way that one of its base edges is parallel to the VP. Draw the development of lateral surfaces in the pentagonal prism. | 3 | 1 | 1 | 7 |
| **OR** | | | | | |
| **Q. 2.a** | A circle of 40mm diameter rolls along a straight line without slipping. Draw the curve traced out by a point P on the circumference, for one complete revolution of the circle. Name the curve. | 3 | 1 | 1 | 7 |
| **Q. 2.b** | A Cone of base diameter 60 mm and height 70 mm is resting on its base on HP. Draw the development of its lateral surface. | 3 | 1 | 1 | 7 |
|  | | | | | |
| **Q. 3** | Draw sectional FV in the direction of X along cutting plane A-B , SV and TV by 1st angle projection method.  C:\Users\Arc17\Downloads\IMG-20240315-WA0002.jpg | 4 | 2 | 1 | 16 |
| **OR** | | | | | |
| **Q. 4** | Draw the front view in the direction of X , SV and TV by first angle method of projection . | 4 | 2 | 1 | 16 |

**………………………………..Best Of Luck…………………………..**