

**Scheme – I**  
**Sample Question Paper**

**Program Name** : Diploma in Plastic Engineering  
**Program Code** : PS  
**Semester** : Fifth  
**Course Title** : Diversified Engineering Applications of Plastics (Elective-II)  
**Marks** : 70

22554

**Time: 3 Hrs.**

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**Instructions:**

- 1) All questions are compulsory.
- 2) Illustrate your answers with neat sketches where necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if necessary.
- 5) Preferably, write the answers in sequential order.

**Q.1) Attempt any five of the following.**

**10 Marks**

- a) Enlist any two plastic materials use in automobile.
- b) Enlist any two characteristics required for plastic material use in electronics field.
- c) State any two properties of plastic material required to use in electrical field.
- d) State the any two processing aspects of plastic material for marine application.
- e) Give any two application plastic in aerospace application.
- f) Enlist any two plastic material uses in medical field.
- g) State any two purpose of plastic material use in medical field.

**Q.2) Attempt any three of the following.**

**12 Marks**

- a) Explain in detail the requirement of plastic materials used in automobile.
- b) Describe in detail the characteristics of plastics material used in automobile.
- c) Enlist any eight materials used in electrical and electronic applications.
- d) Explain in detail the requirement of plastic materials to use in electronic applications.

**Q.3) Attempt any three of the following.**

**12 Marks**

- a) State and explain in detail the processing aspect of car bumper used in automobile.
- b) Identify the plastic materials used for car dash board and explain its purpose.
- c) Suggest the plastic material for LED television body and explain in detail their purpose.

- d) Suggest the plastic material for Smartphone cover and explain in detail its processing aspects.

**Q.4) Attempt any three of the following.**

**12 Marks**

- a) Enlist any four plastic materials used in automobile field with its relevant properties.
- b) Explain in detail any four characteristics of plastic material used in marine application.
- c) State any four requirements of plastic materials to use in aerospace applications.
- d) State any four characteristics of plastic materials used in horticulture applications.
- e) Explain in detail any four agriculture applications of plastic material.

**Q.5) Attempt any two of the following.**

**12 Marks**

- a) Suggest the plastic material used for boat hull manufacturing and enlist any four materials requirement.
- b) State and explain the material for rocket nozzle with its detail processing aspects.
- c) Explain in detail the requirement of plastic material to use in agriculture field.

**Q.6) Attempt any two of the following.**

**12 Marks**

- a) Suggest the plastic material for spray pump body used in agriculture field with its detail processing aspects.
- b) State any six applications of plastic materials used in the horticulture products.
- c) Suggest the plastic material used for plastic syringe manufacturing and enlist any four materials requirement to use it.

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**Scheme – I**  
**Sample Test Paper - I**

**Program Name : Diploma in Plastic Engineering**

**Program Code : PS**

**Semester : Fifth**

**Course Title : Diversified Engineering Applications of Plastics (Elective-II)**

**Marks : 20**

22554

**Time: 1 Hour**

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**Instructions:**

- 1) All questions are compulsory.
- 2) Illustrate your answers with neat sketches where necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if necessary.
- 5) Preferably, write the answers in sequential order.

**Q.1) Attempt any four of the following.**

**08 Marks**

- a) State any characteristic of plastic material to use in automobile field.
- b) State any two important advantages of plastics material to use in electronic field.
- c) Enlist any two important applications of plastic material used in electrical field.
- d) State any two advantages of plastic material use in marine field.
- e) Enlist any two application of plastic material to use in aerospace.

**Q.2) Attempt any three of the following.**

**12 Marks**

- a) Explain the in detail processing aspect of plastic material use in automobile field.
  - b) State any four important characteristics of plastic material to used in aerospace applications.
  - c) State any four important applications of plastic material use in electronics field.
  - d) State and explain in detail the processing aspect of car bumper used in automobile.
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**Scheme – I**  
**Sample Test Paper - II**

**Program Name : Diploma in Plastic Engineering**

**Program Code : PS**

**Semester : Fifth**

**Course Title : Diversified Engineering Applications of Plastics (Elective-II)**

**Marks : 20**

22554

**Time: 1 Hour**

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**Instructions:**

- 1) All questions are compulsory.
- 2) Illustrate your answers with neat sketches where necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if necessary.
- 5) Preferably, write the answers in sequential order.

**Q.1) Attempt any four of the following.**

**08 Marks**

- a) State any two properties of plastic material to use in medical applications.
- b) Enlist any two applications of plastic material in the field of horticulture applications.
- c) State any two characteristics of plastic material to use in agriculture field.
- d) State any two application of plastic material in the field of marine.
- e) Enlist any two applications of plastic material in the field of agriculture applications.

**Q.2) Attempt any three of the following.**

**12 Marks**

- a) Explain in detail the purpose of plastic material to use in aerospace application.
  - b) Suggest the plastic material used for plastic syringe manufacturing and enlist any four materials requirement to use it.
  - c) Explain in detail the requirement of plastic material to use in agriculture field.
  - d) Explain in detail any four medical applications of plastic material.
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