

B.Tech. Seventh Semester (Food, Pulp & Paper, Oil & Paint & Petro Technology) (CGS)
11065 : Special Technology - V : Oil & Paint Technology - V : 7 OT 05

P. Pages : 2

Time : Three Hours



AU - 2954

Max. Marks : 80

- Notes :
1. Answer **Three** question from Section A and **Three** question from Section B.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Illustrate your answer necessary with the help of neat sketches.
 4. Use of pen Blue/Black ink/refill only for writing the answer book.

SECTION – A

1. Discuss the functional classification of paints in detail. How do primer and finishing coats differ in their function, composition & properties? Explain the role of **13**

- | | |
|------------------|---------------|
| i) Stoppers | ii) Top coats |
| iii) Under coats | iv) Sealers |

OR

2. Give an account of classification of natural resin. Write in details about their properties, occurrence & industrial applications. **13**
3. Explain the working of "Ball mill" with neat diagram in detail. Discuss the parameters which critically affect the grinding efficiency of ball mill. **13**

OR

4. Discuss the chemistry of oxidative & thermal polymerization of dry in oils. Explain the preparation of stand oil with neat diagram. **13**
5. Give the classification of solvents. How do you distinguish between solvents, dilutents & thinners? Describe the importance of solvent in paints, also state their properties. **14**

OR

6. Discuss about **any two**. **14**
- i) Convertible & non convertible coating.
 - ii) Constituents of paint system.
 - iii) Powder coating.

SECTION – B

7. Give an account of manufacture of TiO_2 by sulphate process & chloride process. Why Rutile grade is having high RI than anatase grade? Also state properties & industrial applications of TiO_2 . **13**

OR

8. Explain the chemistry, composition & properties of 13
- i) Toluene ii) Ethyl ether
- iii) MTO iv) Isopropyl alcohol
- v) Methanol.
9. Describe the manufacture of Alkyd Resin by monoglyceride process with neat diagram. Also discuss their parameters. 13

OR

10. Give an account of occurrence, preparations, properties & industrial uses of "Any Four" extender pigments. 13
11. Explain the working of "Triple Roll" mill with neat diagram. Discuss the factors affecting efficiency of triple roll mill. 14

OR

12. Discuss about any two. 14
- i) Oil length in alkyd & their effects.
- ii) Attritor mill.
- iii) Blown oil.

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