

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)

CLASS: BTECH/BARCH
BRANCH: BT/ARCH

SEMESTER : VI
SESSION : SP/2023

SUBJECT: CL328 PAINTS AND SURFACE COATING TECHNOLOGY

TIME: 3 Hours

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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Q.1(a)	Give examples of some organic and inorganic pigments. Discuss the hiding power of pigments	[5] 1	2
Q.1(b)	Distinguish between aggregate and agglomerate. Discuss the aspect ratio of pigments.	[5] 3	2
Q.2(a)	Discuss the advantages of ZnS over TiO ₂ . Which pigment is used for fire retardant paints?	[5] 2	3
Q.2(b)	Discuss the functions of leafing and non leafing varieties of Al pigments. What is vat dye pigments?	[5] 2	1
Q.3(a)	Discuss the functions of extenders. How Industry reduces the emission of solvent into the atmosphere?	[5] 2	3
Q.3(b)	Classify the solvent based on flammability. Discuss the properties affected beyond CPVC.	[5] 3	2
Q.4(a)	Explain reflectance, Hue and Saturation in paints.	[5] 3	3
Q.4(b)	Discuss the advantages and disadvantages of brush coating	[5] 1	2
Q.5(a)	What are the different type of finish gloss levels? What factors affect the corrosion in paint?	[5] 3	2
Q.5(b)	Discuss the surface coating of wood. Show the typical surface layered on metal surface.	[5] 3	3

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