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SUBJECT CODE NO:- H-1157
FACULTY OF SCIENCE AND TECHNOLOGY
T.Y. B.Tech.(Electrical) (Sem-IV)
Electrical Testing & Maintenance
[Old]

[Time: Two Hours]**[Max.Marks: 40]**

N.B

Please check whether you have got the right question paper.

- 1) Question no. 1 from section A and Question no. 4 from section B is compulsory.
- 2) Solve any two from remaining questions from each section.
- 3) Assume suitable data from if required.

SECTION – A

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| Q.1 | Attempt any four of the following. | 08 |
| | <ol style="list-style-type: none"> i) Classify various types of transformer bushing? ii) What is flash point test? iii) Define hygroscoy iv) Explain briefly induction motor fault monitoring method? v) What is induction motor fault monitoring method? | |
| Q.2 | <ol style="list-style-type: none"> i) Explain different testing of transformer oil. <p style="text-align: center;">OR</p> <ol style="list-style-type: none"> ii) Explain planned maintenance of Induction motor. | 06 |
| Q.3 | <ol style="list-style-type: none"> i) Explain Induction motor fault diagnostic method. <p style="text-align: center;">OR</p> <ol style="list-style-type: none"> ii) Explain various failure modes of Induction motor. | 06 |

SECTION – B

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| Q.4 | Attempt any four of the following | 08 |
| | <ol style="list-style-type: none"> i) Explain the term touch potential. ii) Define the term bedding. iii) Explain dielectric loss factor. iv) What is different methods for location of fault in power cable? v) What are different types of earthing system? | |
| Q.5 | <ol style="list-style-type: none"> i) Explain the various testing of transformer IS 2026. <p style="text-align: center;">OR</p> <ol style="list-style-type: none"> ii) Explain various faults in power cables & the methods of locating cable faults. | 06 |
| Q.6 | <ol style="list-style-type: none"> i) Explain & classify various substation based on constructional features. <p style="text-align: center;">OR</p> <ol style="list-style-type: none"> ii) Explain Kelvin's law & its limitation. | 06 |