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312313 – Manufacturing Technology (Sem II)

As per MSBTE's K Scheme

ME / AE / MK / PG

| Unit III | | Casting processes | | Marks - 12 | |
|-----------------|---|--------------------------|----------------|-------------------|--|
| S. N. | MSBTE Board Asked Questions | Exam Year | Marks | | |
| 1. | State and explain the desirable properties of molding sand. | W-23 W-22 S-19 | 4M 2M | | |
| 2. | Name any four types of pattern | W-23 S-23 | 2M | | |
| 3. | State importance of colour scheme for pattern. Illustrate a common colour scheme | W-23 W-19 | 4M | | |
| 4. | Explain the processes of sand preparation and sand conditioning | W-23 | 4M | | |
| 5. | Determine different defects in casting. State their causes and remedies | S-23 W-19 S-19 | 4M 6M 2M | | |
| 6. | Write the indications of following color in coding of pattern: i) Black ii) Red iii) Yellow iv) Red strips on yellow background | W-22 | 2M | | |
| 7. | Enlist four materials used for pattern making. | W-22 S-19 | 2M | | |

| | | | |
|-----|---|--------------|----------|
| 8. | Explain centrifugal casting process with neat sketch. | W-22 | 4M |
| 9. | Write safety practices to be followed in foundry shop. | W-22 S-19 | 4M |
| 10. | Enlist types of moulding sand. | S-22 | 2M |
| 11. | Draw a neat sketch of Gating system. State the various elements of gating system in moulding process. | S-22 W-19 | 2M |
| 12. | Elaborate why the section of a sprue reduces downwards | W-19 | 2M |
| 13. | State two advantages and disadvantages of centrifugal casting. Write four applications | W-19 | 4M |
| 14. | Determine different defects in casting. State their causes and remedies (six). | W-19 S-19 | 6M 2M |
| 15. | Enlist the types of pattern and state the procedure for pattern construction | S-19 | 6M |

Thank You

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