

KERALA AGRICULTURAL UNIVERSITY B.Tech. (Agrl. Engg.) 2022 Admission & Previous Admissions II Semester Final Examination - September 2023

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Workshop Technology and Practices (1+2)

Marks: 50 Time: 2 hours

(10x1=10)

Define	the	following
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Brittleness

Fill in the blanks

- 2. is a property of material to absorb energy and to resist shock and impact loads.
- 3. The foundry uses process to relieve stresses produced in castings.
- 4. In green sand molding, the sand id claimed to be green because it has.....
- State True or False
- 5. The colour coding of oxygen cylinder is red.
- 6. Fettling is the last step of the foundry.
- 7. Tailstock method is highly suitable for producing steep tapers.
- 8. We can't perform grinding operation in a drilling machine. Answer the following
- 9. Which type of file you would select for filing a wooden plank? Match the following
- 10. (a) Drilling Machine (1) Ram
 - (b) Lathe (2) Radial arm
 - Shaping Machine (3) Gear cutting
 - (d) Milling machine (4) Lead screw
 - (5) Mould

Write short notes on ANY FIVE of the following

- 1. What is the difference between hardness and toughness?
- 2. What is the use of Mortise marking gauge?
- 3. What are the gases used in oxyfuel welding?
- 4. What is resistance welding? Explain briefly about the seam welding.
- 5. Enumerate the different types of patterns use in foundry.
- 6. How to perform a drilling action using lathe machine?
- 7. What are the parts of the drilling machine?

III Answer ANY FIVE of the following

(c)

- 1. What are the factors influencing the plat layouts?
- 2. Explain briefly about any four smithy tools.
- 3. Differentiate the TIG and MIG welding.
- 4. Write about the properties of the green sand using in foundry process.
- 5. Explain briefly about crank and slot quick return mechanism using in shaping machine.
- 6. What is the use of carriage in lathe machine?
- 7. Write shortly about horizontal milling machine.

Write an essay on ANY ONE of the following

- 1. Discuss elaborately about the foundry process.
- 2. Discuss elaborately about the radial drilling machine and its functions.

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(5x4=20)

(1x10=10)

(5x2=10)