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**Rajiv Gandhi University of Health Sciences, Karnataka**

**First Year Bachelor in Prosthetics and Orthotics Degree Examination – OCT-2019**

**Time: Three Hours**

**Max. Marks: 80 Marks**

**WORKSHOP TECHNOLOGY AND MATERIAL – (RS3)**

**Q.P. CODE: 2963**

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

**ESSAYS TYPE (answer any Two)**

**2 x 10 = 20 Marks**

1. Define welding. Explain the different kinds of welding.
2. What do you mean by properties of metal? Explain any 4 properties of metals.
3. Discuss about different types of files and draw a neat sketch.

**SHORT ESSAYS TYPE (answer any Six)**

**6 X 5 = 30 Marks**

4. What is Poly Vinyl Chloride (PVC) and mention its role in orthotic field?
5. Write the difference between Hot gas welding and Hot plate welding.
6. What is counter sinking and its function?
7. Explain about Plasticity and Ductility.
8. What is the difference between thermosetting plastic and thermoplastic?
9. Write about milling machine and mention types of milling machine.
10. Write the difference between Ball peen hammer and Pneumatic hammer.
11. What are different types of materials used in P&O field? Write one application of each.

**SHORT ANSWERS TYPE (answer any Ten)**

**10 x 3 = 30 Marks**

12. Mention the setting time of Plaster of Paris and factors affecting it.
13. Function of Lathe machine
14. What is surface coating of metals?
15. Use of Claw hammer
16. Ultrasonic welding
17. Define use of outside caliper.
18. What is Drill bit?
19. Properties of chrome leather
20. Function of try square
21. What is U- clamp?
22. Write about use of T- bolt.
23. Write any three uses of plaster of paris.

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