

2023/FYUG/ODD/SEM/ PHYSEC-101T/030

FYUG Odd Semester Exam., 2023 (Held in 2024)

CONTRACTOR PHYSICS OF THE MOW

(1st Semester)

Course No.: PHYSEC-101T

(Workshop Skill)

Full Marks: 50
Pass Marks: 20

Time: 2 hours

The figures in the margin indicate full marks for the questions

SECTION-A

Answer fifteen questions, selecting three from each
Unit:

1×15=15

UNIT-I

- 1. What is a vernier calliper?
- 2. Define vernier constant.
- 3. What is international system of unit?

(Turn Over)

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4. Define least count of a screw gauge.

UNIT—II

- 5. What are the methods of manufacturing?
- 6. Why are alloys used in manufacturing?
- 7. What is welding process?
- 8. State one of the commonly used materials in manufacturing.

UNIT—III

- 9. What is lubricating oil?
- 10. What are cutting tools?
- 11. What are fitting tools?
- 12. What type of blade is used to cut sheet metal?

UNIT-IV

- 13. What is the difference between fuse and switch?
- 14. What is multimeter?

- 15. What are the different parts of a multimeter?
- 16. What is the full form of VOM? and state the state of vome.

UNIT-V

24. Name an alloy with its constituent elements

- 17. State the principle of lever. Write an expression for its mechanical advantage.
- 25. What is fulcrum? or gnimdsem are tadW .35.
- 19. Which machine helps us to lift a heavy load with a lever?
- **20.** State the principles of power generation and transmission.

SECTION—B

27. State the main difference between regulated

Answer *five* questions, selecting *one* from each Unit: 2×5=10

UNIT-I

- 21. The specific heat of water is $1 \operatorname{cal} g^{-1} \circ C^{-1}$. What will be its value in the SI unit?
- 22. Explain in brief the working principle of a screw gauge.

is. What are the diffelentiny is of a multimeter?

- 23. State the difference between workshop and or training.
- 24. Name an alloy with its constituent elements.
 - 17. State the principle of lever. Write an expression for ithms: hydrical advantage.
- 25. What are machining processes? I at unity .81
- 26. Why is drill hole diameter always greater than drill bit diameter?
 - 20. State the principles of power generation and VI—TINU
- 27. State the main difference between regulated power supply and unregulated power supply.
- 28. Mention few uses of a multimeter. Sent isward.

UNIT-V

- 29. How does a generator produce an electric current?
- 30. What is gear system? Why is gear system used? What is gear system and tailed at material as a second system.

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(Continued)

SECTION—C

Answer *five* questions, selecting *one* from each Unit: 5×5=25

UNIT-I

- 31. What are the standard systems of measurement? Write the precautions to be followed when a metre scale being used for measuring a given length.

 2+3=5
- **32.** What is the use of a sextant? Describe the use of sextant for measuring the height of the buildings.

 1+4=5

UNIT-II

- 33. What is manufacturing? Explain different types of manufacturing techniques. 1+4=5
- 34. What are welding defects? Explain briefly the various types of weld defects occurred in sheet of metal fabrication processes. 2+3=5

UNIT-III

35. State the names of some common types of bench vice. Explain the various tasks which are to be performed with the help of bench vice.

2+3=5

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(Turn Over)



(6)

36. What are the different types of cutting tools which are commonly used? Explain their functions in brief. 2+3=5

UNIT-IV

- **37.** Explain with suitable diagram, how we need to connect a multimeter in a circuit to measure currents and voltages.
- **38.** What is a CRO? Give block diagram of CRO. Explain briefly the construction of CRO.

1+2+2=5

UNIT-V

- 39. Explain the working principle of a lever. How does it determine mechanical advantage?

 2+3=5
- **40.** Explain how electric power system generation, transmission and distribution are done.

State in names of the common types of

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