

# 2021/TDC/CBCS/ODD/ PHSSEC-301T/154

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## TDC (CBCS) Odd Semester Exam., 2021 held in March, 2022

### What is meantaby machining? **PHYSICS**

( 3rd Semester )

Course No. : PHSSEC-301T

(Workshop Skill)

Full Marks: 50 Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

### SECTION—A

13. Wind is meant by lift grathe charles a lang

Answer any fifteen from the following: 1×15=15

- 1. What is least count?
- 2. What is meant by instrumental error?
- A. Deline mechanical advantage of a lever 3. What is sextant?

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- 4. What is backlash error?
- 5. What is workshop?
- 6. What is meant by machining?
- 7. What is forming?
- 8. Name two processes which are used in joining of metals.
- 9. What is tapping?
- 10. Name two important cutting tools.
- 11. What is filling? That a smill
- 12. What is meant by fitting?
- 13. What is meant by integrated circuit?
- 14. What is relay?
- 15. What is multimeter?
- 16. What is soldering?
- 17. Define mechanical advantage of a lever system.

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((3.)

What is moment of force?

What is gear?

what is pulley?

SECTION-B

Answer any five from the following: 2

21. Discuss how we can measure the thickness of a sheet by using screw gauge.

- 22. What are positive and negative errors of vernier calliper?
- What are the defects of casting?
- 24. What is foundry? What are the different hand tools used in foundry?
- 25. Write a short note on bench vice.
- 26. What is milling machine?
- 27. Draw a neat block diagram of a regulated power supply.
- Explain active and passive components of IC with examples.

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29. Explain first kind of lever system. Give an example.

30. Briefly discuss the working of disc brake.

#### SECTION—C

Answer any five from the following:

5×5=25

sein. What is pulley?

- 31. Describe the principle of vernier scale. How can the length of a body be measured by using vernier scale?
- 32. How can the height of a building be measured with the help of sextant?
- 33. What is welding? Explain it. Discuss the advantages and disadvantages of welding 3+2=5 weite a thort note on bench one
- 34. What is timber? How can they be classified? Define exogenous and endogenous trees.

1+2+2=5

Mr. there a next block degrees of a resultand 35. What is drilling machine? Discuss the working principle of drilling machine. What are the basic drilling operations? 1+2+2=5

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with exemples.

- What is lathe? Discuss the different lathe operations.
- Discuss the working of a transistor as a switch.
- Draw a neat diagram of CRO. Discuss the different components of the CRO and mention its uses. 2+2+1=5
- What is hydraulic brake system? State its advantages and disadvantages. 3+2=5
- 40. What is power generating system? How can they be classified? 1+4=5

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