

2025

Multi Skill Foundation Course (Vocational)

Total marks: 50

Time: 2 hours

General instructions:

- i) *Approximately 10 minutes is allotted to read the question paper and revise the answers.*
- ii) *All questions are compulsory.*
- iii) *The question paper consists of 21 questions.*
- iv) *Marks allocated to every question are indicated against it.*
- v) *Write the correct question number in your answer sheet to indicate the option being attempted.*

N.B: *Check to ensure that all pages of the question paper are complete as indicated on the top left side.*

1. Choose the correct answer from the given alternatives: 10x1=10

- i. In gas welding, an ingredient used to strengthen metal joints is called
 - (a) Copper
 - (b) Filler metal
 - (c) Iron
 - (d) Gas gun
- ii. This tool is designed by a combination of T-square, Set square and Protractor.
 - (a) Compass
 - (b) Divider
 - (c) French curve
 - (d) Mini drafter
- iii. Which part of the diesel engine regulate the in and out paths of the gas?
 - (a) Valve
 - (b) Piston
 - (c) Fly wheel
 - (d) Crank shaft
- iv. Which of the following is not used in making rain gauge?
 - (a) Funnel
 - (b) Scissor
 - (c) Protractor
 - (d) Marker pen
- v. The process of handling of young seedlings until they are ready for permanent planting is known as
 - (a) Propagation
 - (b) Nursery
 - (c) Grafting
 - (d) Tissue culture
- vi. Which of the following is a branched free floating aquatic fern?
 - (a) Azolla
 - (b) Silage
 - (c) Hydroponic
 - (d) Aerobic
- vii. Blood is red due to the presence of
 - (a) Protein
 - (b) Antigen
 - (c) Haemoglobin
 - (d) Corpuscles
- viii. Public signs and visual symbols are a part of
 - (a) Verbal communication
 - (b) Non-verbal communication
 - (c) Oral communication
 - (d) Visual communication
- ix. The act of performing something without expecting any apparent external rewards is known as
 - (a) Extrinsic motivation
 - (b) Intrinsic motivation
 - (c) Self-motivation
 - (d) Self-regulation

- x. Windows 10 is an operating system developed by
 - (a) Microsoft
 - (b) Apple
 - (c) Dell
 - (d) Lenovo

Answer the following questions in one word or one sentence:

- 2. List any two components of verbal communication. 1
- 3. What is the other name of positive stress? 1
- 4. What is computer virus? 1
- 5. What is a die used for in plumbing? 1
- 6. State two examples of semiconductor material. 1
- 7. Why is soil testing important? 1
- 8. Through one gram of protein, how many kilocalories (kcal) of energy can be obtained? 1
- 9. What is silage? 1

Answer the following questions in 20-50 words:

- 10. Briefly explain two qualities of successful entrepreneurs. 2
- 11. Write two problems related to sustainable development. 2
- 12. What is ferro-cement? Write one benefit of ferro-cement. 1+1=2
- 13. State four advantages of solar energy. 2
- 14. What is a nursery? Mention two integrative components of nursery. 1+1=2
- 15. Briefly describe pot irrigation. 2
- 16. What is rain water harvesting? Write two advantages of saving rain water. 1+1=2
- 17. Write four factors that affects personal health. 2

Answer the following questions in 60-100 words:

- 18. a. Explain any four from the "5 S" of engineering workshop. 4

Or

 - b. What is plaster? Write three advantages of plastering. (1+3=4)
- 19. Explain the following in brief: 2+2=4
 - i. Electric current
 - ii. Voltage
 - 20. Explain layering in gardening. Name the two types of layering. 3+1=4
 - 21. a. Name two different components of blood. Which blood groups are known as universal blood groups and why? 1+1+2=4

Or

 - b. Describe four major sources of water pollution. (4)
