

2020

**Multi Skill Foundation Course (Vocational)**

Total marks: 50

Time: 2 hours

**General instructions:**

- i) *Approximately 15 minutes is allotted to read the question paper and revise the answers.*
- ii) *All questions are compulsory.*
- iii) *The question paper consists of 23 questions.*
- iv) *Marks allocated to every question are indicated against it.*

**N.B:** *Check 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. Identify the inorganic component of diet.
  - (a) Carbohydrate
  - (b) Protein
  - (c) Minerals
  - (d) Fats
- ii. Drip Irrigation falls under which method of irrigation?
  - (a) Traditional
  - (b) Modern
  - (c) Sub urban
  - (d) Rural
- iii. Seasonal Nursery is usually for a duration of
  - (a) 1 to 2 months
  - (b) 2 to 4 months
  - (c) 4 to 6 months
  - (d) 6 to 8 months
- iv. We should wash our hands for
  - (a) 20 seconds
  - (b) 25 seconds
  - (c) 30 seconds
  - (d) 40 seconds
- v. Which of the following is considered as universal donor blood group?
  - (a) A+
  - (b) O+
  - (c) AB+
  - (d) B+
- vi. What is used to draw a specific angle at a desired location in a drawing?
  - (a) Protractor
  - (b) Ruler
  - (c) French curve
  - (d) Both a & c
- vii. Which of the following is not a part of pump?
  - (a) Motor
  - (b) Impeller
  - (c) Flywheel
  - (d) Casing
- viii. Which of the following material is not required for producing biogas?
  - (a) Rotten fruit and food
  - (b) Waste oil cakes
  - (c) Cow dung
  - (d) Wood chips

- ix. It is not a type of welding flame.
  - (a) Carburizing flame
  - (b) Neutral flame
  - (c) Covering flame
  - (d) Oxidizing flame
  
- x. It stores and regulates the fluctuation in current and transfers it to the electric circuit.
  - (a) Transistors
  - (b) Capacitor
  - (c) Both a & b
  - (d) None of the above

**Answer the following questions in one word or one sentence:**

- 2. What is rain water harvesting? 1
- 3. What is the pH of the soil? 1
- 4. What is the full form of ORS? 1
- 5. Name the measuring instrument of blood pressure. 1
- 6. What is an outside micrometer? 1
- 7. Name any two solar appliances. 1
- 8. Who prepares the maps in India? 1
- 9. What does RCC stand for? 1

**Answer the following questions in 20-50 words:**

- 10. Mention any two cares that should be taken while testing the soil. 2
- 11. Write two necessities of the animal feed. 2
- 12. How can a family maintain its budget to keep the members healthy? 2
- 13. Write any two benefits of eating fresh food. 2
- 14. Draw the symbol of both 1<sup>st</sup> and 3<sup>rd</sup> angle projection. 2
- 15. Mention any two advantages of rain water harvesting. 2
- 16. Differentiate technically between petrol and diesel engine. 2
- 17. What is Ferro-cement? Write any two ingredients of Ferro cement. 1+1=2

**Answer any four from the following questions in 60-100 words:**

- 18. What is eutrophication? Write any three major sources of water pollution. 1+3=4
- 19. What is artificial insemination? Write any three benefits of artificial insemination. 1+3= 4
- 20. Mention any four safety precautions needed to be taken while working in workshop engineering section. 4

21. Mention any two types of plastering and describe three advantages of plastering. **1+3= 4**
22. Write down any four differences between the two types of biogas plant. **4**
23. Briefly explain any two grafting techniques. **4**

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