

CLASS: 10th(Secondary)

Roll No:

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Power

National Skills Qualification Framework (NSQF)

[Hindi and English Medium]

समय: 2.30 घंटे पूर्णांक: 60

[Time allowed: 2.30 hours]

[Maximum Marks:60]

- कृपया सुनिश्चित करें कि इस प्रश्नपत्र में मुद्रित पृष्ठों की संख्या 5 है और इसमें 30 प्रश्न हैं।
Please make sure that the printed pages in this question paper are 5 in number and it contains 30 questions.
- किसी प्रश्न का उत्तर देना शुरू करने से पहले, उसका सीरियल नंबर लिखना आवश्यक है।
Before beginning to answer a question, its Serial Number must be written.
- अपनी उत्तर पुस्तिका में कोई भी पृष्ठ खाली न छोड़ें।
Don't leave blank page/pages in your answer-book.
- उत्तर पुस्तिका के अलावा कोई अतिरिक्त शीट नहीं दी जाएगी। संक्षिप्त में लिखें और लिखे हुए उत्तर को न काटें।
Except answer-book, no extra sheet will be given. Write to the point and do not strike the written answer.
- उम्मीदवारों को प्रश्नपत्र पर अपना रोल नंबर अवश्य लिखना चाहिए। रोल नंबर के अलावा प्रश्नपत्र पर कुछ भी न लिखें और वस्तुनिष्ठ प्रकार के प्रश्नों के उत्तर पर कोई निशान न लगाएं।
Candidate must write their Roll No. on the question paper. Except Roll No. do not write anything on question paper and don't make any mark on answer of objective type questions.

Before answering the questions, ensure that you have been supplied the correct and complete question paper, no claim in this regard, will be entertained after examination.

Instructions (निर्देश):-

1. All questions are compulsory. (सभी प्रश्न अनिवार्य हैं)
2. Question no 1 to 3 are long answer type questions carrying five marks.
(प्रश्न संख्या 1 से 3 तक लंबे उत्तर वाले प्रश्न हैं जिनमें पांच अंक हैं।)
3. Question no 4 to 9 are short answer type question carrying three marks.
(प्रश्न संख्या 4 से 9 तक लघु उत्तर प्रकार के प्रश्न हैं जिनमें तीन अंक दिए गए हैं।)
4. Question no 10 to 15 are very short answer type question carrying two marks.
(प्रश्न संख्या 10 से 15 तक बहुत ही संक्षिप्त उत्तर वाले प्रश्न हैं जिनमें दो अंक दिए गए हैं।)
5. Question no. 16 to 30 are MCQ/ One Word/ Fill in the Blank type's questions carrying one marks each. (प्रश्न 16 से 30 तक किंवा भर के हैं)

[Section-A]

Long Answer Type Questions

(5 × 3 = 15 Marks)

Q.1. Explain the installation, operation and maintenance procedure of a single-phase energy meter.

OR

Q.1. Explain the location requirements for installing an energy meter and bus bar/distribution box connections.

Q.2. Explain the importance of health and safety at the workplace. Describe workplace hazards, fire safety and basic first aid procedures.

OR

Q.2. Discuss different types of workplace risks and explain how PPE helps in preventing accidents.

Q.3. Explain sustainable development and discuss the role of individuals in protecting the environment. Also explain how green skills contribute to society.

OR

Q.3. Describe the qualities of a successful entrepreneur and explain entrepreneurship as a career option.

[Section-B]

Short Answer Type Questions

(6 × 3 = 18 Marks)

Q.4. Explain the organisational structure followed in a power distribution company.

OR

Q.4. Describe the procedure for recording metered data and verifying meter accuracy.

Q.5. Explain any three safe working practices to be followed while handling electrical equipment.

OR

Q.5. Explain any three methods of self-motivation.

OR

Q.6. Describe the importance of entrepreneurship in society with three points.

Q.7. Write any basic first aid measures for an electric shock victim.

Q.8. Why should an energy meter be installed at an accessible location?

Q.9. Differentiate between single-phase and three-phase energy meters.

[Section -C]

Very Answer Type Questions

(6 × 2 = 12 Marks)

Q.10. State any two duties of an Energy Meter Technician.

OR

Q.10. Mention any two precautions while installing an energy meter.

OR

Q.11. Write any two causes of workplace accidents.

OR

Q.11. Differentiate between verbal and non-verbal communication.

OR

Q.12. State any two benefits of time management.

Q.13. Explain the organisational structure of a power distribution company.

Q.14. Explain the procedure for removing and replacing a low-voltage single-phase energy meter.

Q.15. Describe the procedure to be followed in case of an electrical fire.

[Section -D]

Objective Type Questions

(15x 1=15 Marks)

Q.16. The Electricity Act was enacted in:

- a) 1998
- b) 2001
- c) 2003
- d) 2005

Q.17. Which instrument records electrical energy consumed?

- a) Ammeter
- b) Voltmeter
- c) Wattmeter
- d) Energy Meter

Q.18. The colour used for fire extinguishers meant for electrical fires is generally:

- a) Red
- b) Blue
- c) Green
- d) Black

Q.19. Which of the following is a renewable source of energy?

- a) Coal
- b) Diesel
- c) Solar Energy
- d) Petrol

Q.20. PPE stands for:

- a) Personal Power Equipment
- b) Public Protection Equipment
- c) Personal Protective Equipment
- d) Power Protection Equipment

Q.21. Which communication method uses facial expressions?

- a) Written Communication
- b) Non-verbal Communication
- c) Telephone Communication
- d) Email Communication

Q.22. Which file operation permanently removes a file from storage?

- a) Save
- b) Copy

- c) Rename
- d) Delete

Q.23. A successful entrepreneur is expected to have:

- a) Laziness
- b) Fear of risk
- c) Leadership
- d) Carelessness

Q.24. Wearing _____ protects workers from workplace hazards.

Q.25. The exchange of information between two people is called _____.

Q.26. Sustainable development meets present needs without affecting the needs of _____ generations.

Q.27. Name one basic first aid item.

Q.28. Which computer device is used to enter text?

Q.29. Name one barrier to effective communication.

Q.30. Name one quality of a successful entrepreneur.