

CLASS: 9th

Roll No:

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Subject: -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 किंबरे के हैं)

[Section-A]

Long Answer Type Questions

(5 × 3 = 15 Marks)

Q.1. Explain the importance of the earthing system in an electrical installation. Draw a neat labelled diagram and mention five advantages.

OR

Q.1. Describe different methods of electricity generation and explain the importance of renewable energy sources.

Q.2. Explain the procedure for identifying and selecting wiring materials and accessories for domestic wiring. Mention the factors to be considered while selecting them.

OR

Q.2. Describe the different tools and equipment used for cable laying with their uses and safety precautions.

Q.3. Explain the installation procedure of an energy meter with suitable diagram. Mention the precautions to be followed during installation.

OR

Q.3. Discuss the importance of communication skills, entrepreneurship skills and green skills for an electrician with suitable examples

[Section-B]

Short Answer Type Questions

(6 × 3 = 18 Marks)

Q.4. Explain the process of electricity generation in a thermal power station.

OR

Q.4. Explain the importance of electrical power and energy in domestic installations.

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

OR

Q.5. Differentiate between surface wiring and concealed wiring.

OR

Q.6. Describe the installation procedure of a single-phase energy meter.

Q.7. Explain the purpose and working of an ICTP switch.

Q.8. Differentiate between analogue and digital energy meters

Q.9. Explain how ICT skills help an electrician in day-to-day work.

[Section -C]

Very Short Answer Type Questions

(6×2 = 12 Marks)

Q.10. Differentiate between conductor and insulator.

OR

Q.10. State any two differences between power and energy.

OR

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

OR

Q.11. Write any two safety precautions to be followed while using electrical tools

Q.12. State the functions of a distribution board.

Q.13. Writethe advantages of earthing.

Q.14. Name any two tools used during cable laying.

Q.15. Write the functions of an energy meter.

[Section -D]

Objective Type Questions

(15x 1=15 Marks)

16. Electricity is commonly generated in power stations by using:

- a) Mechanical energy
- b) Chemical energy
- c) Nuclear energy only
- d) Sound energy

17. The SI unit of electric current is:

- a) Volt
- b) Ampere
- c) Watt
- d) Ohm

18. Electrical power is measured in:

- a) Joule
- b) Watt
- c) Volt
- d) Coulomb

19. Earthing mainly protects against:

- a) High voltage
- b) Electric shock
- c) High temperature
- d) Low current

20. Which tool is commonly used for cutting electrical wires?

- a) Hammer
- b) Combination plier
- c) Screwdriver
- d) Chisel

21. PVC conduit is mainly used for:

- a) Measuring voltage
- b) Protecting electrical cables
- c) Generating electricity
- d) Measuring current

22. ICTP stands for:

- a) Iron Circuit Transfer Point
- b) Iron Clad Triple Pole
- c) Internal Cable Testing Point
- d) Insulated Cable Terminal Panel

23. An energy meter measures:

- a) Current
- b) Voltage
- c) Electrical energy consumed
- d) Resistance

24. Which employability skill helps in effective interaction with customers?

- a) Communication Skill
- b) Green Skill
- c) ICT Skill
- d) Self-management Skill

25. The device used to protect people from electric shock is _____.

26. Self-management skill helps a person improve _____.

27. Unit of electric power.

28. Tool used for removing insulation from wires.

29. Material used for earthing electrode.

30. Device used to measure electrical energy.