

ශ්‍රී ලංකා රජරට විශ්වවිද්‍යාලය
Rajarata University of Sri Lanka

පරීක්ෂණය (ප්‍රශ්න පත්‍රයේ මුලින් දක්වා ඇති පරිදි
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Examination (Write the official title of the
Examination as it appears at the head of the
question paper)

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විභාග අංකය (ඉතා පැහැදිලිව ලියන්න)
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අපේක්ෂකයින්ට උපදෙස්

(1) කඩදාසියේ දෙපැත්තේම ලියන්න. (2) ප්‍රශ්නයේ අංකය සෑම පිටුවකම, ඊට ඉඩ තබා ඇති තැනක දෙස ලියන්න. (3) සියලුම කටු සටහන් හා හිස් පිටු කටුගා දමන්න. (4) පරීක්ෂක තැනට දිගටම කියවාගෙන යා හැකි පරිදි අතිරේක කඩදාසි, පොත්, ආකෘති, සිතියම් ආදිය මේ පොත කෙළවරේ අමුණන්න. (5) මේ පිළිතුරු පොතේ කිසිම කොටසක් ඉරා නොගත යුතුයි. (6) අපේක්ෂකයෙකු විසින් මේ පොත පාවිච්චි කර හෝ නොකර හෝ මොනයම් අවස්ථාවකදීත් විභාග ශාලාවෙන් පිටතට නොගෙන යා යුතුයි. (7) නියෝජ්‍ය ලේඛකාධිකාරී විසින් අවසර නොදෙන ලද මුද්‍රිත, ලියන ලද හැතහොත් අඳින ලද කිසිවක් ප්‍රභූ තිබී අසුදුවහොත්, ඊට හේතු ලියවිල්ලකින් දැක්වීම අවශ්‍ය වේ. එවැනි අපේක්ෂකයෙකු විභාග ශාලාවෙන් බැහැර කොට ලේඛකාධිකාරීට දැනුම් දීමටද පුළුවන.

DIRECTIONS TO CANDIDATES

(1) Write on both sides of the paper. (2) Write the number of each question at the top of each page in space provided. (3) Cross out all rough work and blank pages. (4) Fasten any supplementary paper, books, out line maps, etc, at the end of this book so that it many provide continuous reading matter to the examiner. (5) Do not tear off any part of this answer book. (6) Under no circumstances must this book, used or unused, be removed from the Examination Hall by a Candidate. (7) Any Candidate who is found to be in possession of any written, printed or pictorial matter not authorized by the Deputy Registrar will be required to give an explanation in writing, and may be excluded from the Examination Hall and will reported to the Registrar.

අපේක්ෂකයාගේ ප්‍රයෝජනය සඳහා

උත්තර ලියූ පිළිවෙල අනුව ප්‍රශ්නාංක කොටු තුළ ලියන්න.

For use of Candidate

Write in the cage below NUMBER OF THE QUESTION in the order in which they have been answered.

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Indicate below the number of annexures.

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Annexations :

මේ පොත පොද්ගලිකව නිරීක්ෂකවරයා වෙත භාර දිය යුතුය. මෙය මේසය මත තබා නොයා යුතුය.

This book should be handed over personally to the invigilator. It should not be left behind on the desk.

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For Examiner's use only

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Rajarata University of Sri Lanka
Faculty of Social Sciences and Humanities

Bachelor of Arts Degree Program
Year 2 Semester II Examination –June/July 2025

EMGT 22022 Environmental Management Systems

Time: **Two and a half (2½) hours**

No of Questions: **Part I (MCQ 20), Part II (SAQ 10) and Part III (ETQ 3)**

No of Pages: **10**

Instructions – **Answer all Part I (MCQs), all Part II (SAQs) and one from Part III (ETQ).**

Part I (MCQ)

MCQ Instructions: Choose the BEST answer for each question and underline the same.

(Marks: 1*20=20)

1. What is meant by 'environment' in ISO 14001:2015 Environmental Management Systems?
 - A) Only the natural surroundings like forests and rivers
 - B) The surroundings in which an organization operates, including air, water, land, etc.
 - C) Only the area inside the organization
 - D) Only external stakeholders
2. What was the world's first environmental management standard?
 - A) ISO 14001
 - B) ISO 9001
 - C) BS 7750
 - D) ISO 12207
3. What is the correct sequence of ISO 14001 standard versions from earliest to latest?
 - A) ISO 14001:1996, ISO 14001:2003, ISO 14001:2012
 - B) ISO 14001:2000, ISO 14001:2004, ISO 14001:2015
 - C) ISO 14001:1995, ISO 14001:2004, ISO 14001:2015
 - D) ISO 14001:1996, ISO 14001:2004, ISO 14001:2015
4. What does Clause 4.1 of ISO 14001:2015 require organisations to determine?
 - A) Environmental risks and opportunities
 - B) Environmental aspects and impacts
 - C) Internal and external issues
 - D) Compliance obligations
5. Interested parties in Clause 4.2 are identified based on their:
 - A) Financial investment in the EMS
 - B) Needs and expectations relevant to the EMS
 - C) Influence on environmental legislation
 - D) Direct contribution to environmental impacts

6. Under the 'leadership' top management must:
- A) Approve environmental objectives only
 - B) Ensure legal registers are complete
 - C) Assign all EMS tasks to middle management
 - D) Demonstrate leadership and commitment
7. The Environmental Policy must:
- A) Commit to pollution prevention and compliance
 - B) Include financial outcomes
 - C) Focus on social responsibility
 - D) Cover only operational aspects
8. Environmental aspects are:
- A) Outputs from operational planning
 - B) Results of nonconformities
 - C) Elements of activities that interact with the environment
 - D) Measures of product quality
9. Environmental Objectives should be:
- A) Generic and unmeasurable
 - B) Aligned with the policy and measurable
 - C) Developed by external consultants
 - D) Reviewed only during certification
10. Competence is determined by:
- A) Years of service only
 - B) Holding management positions
 - C) Appropriate education, training, or experience
 - D) External audits
11. Documented information must be:
- A) Maintained and retained
 - B) Accessible only to auditors
 - C) Updated monthly
 - D) Approved by regulators
12. Operational controls are used to:
- A) Ensure policy awareness
 - B) Manage significant environmental aspects
 - C) Monitor legal updates
 - D) Audit employee performance
13. Internal audits are conducted to:
- A) Evaluate external stakeholders
 - B) Satisfy regulatory agencies
 - C) Ensure conformity with EMS requirements
 - D) Review payroll processes

14. Which of the following is a primary goal of ISO 14001:2015 Environmental Management Systems?

- A) Increase product sales
- B) Improve waste management
- C) Response to emergency
- D) Enhance environmental performance

15. What is a key output of the initial environmental review?

- A) Report corrective action
- B) Supplier evaluations
- C) Customer satisfaction surveys
- D) Identification of significant environmental aspects

16. Why is determining the scope of the EMS important during initiation?

- A) It defines the format of audit checklists
- B) It sets the limits and boundaries for the EMS
- C) It determines the layout of the office
- D) It allows skipping compliance audits

17. What is the purpose of integrating the “life cycle perspective” in ISO 14001:2015?

- A) To eliminate product development
- B) To avoid supplier audits
- C) To assess environmental aspects throughout product/service life cycle
- D) To reduce product cost

18. How often must internal audits be conducted under ISO 14001:2015?

- A) As determined by the organization
- B) Monthly
- C) Once every 2 years
- D) Once every 3 years

19. What type of approach is ISO 14001:2015 considered to be?

- A) Mandatory legal requirement
- B) Government-enforced regulation
- C) Voluntary environmental management approach
- D) Market-based approach

20. What is the purpose of communication in EMS under ISO 14001:2015?

- A) Promote attendance
- B) Share environmental information internally and externally
- C) Report financial progress
- D) Advertise products

Part II (SAQ)

SAQ Instructions: Provide a short answer in the given space.

(Marks 2*10=20)

1. How to define Environmental Management Systems according to ISO 14001:2015 version?

2. Name the four requirements under the 'context of the organization' of ISO 14001:2015.

3. Identify six roles of top management under the 'Leadership and Commitment' clause of ISO 14001:2015.

4. Briefly explain the characteristics that should be included in an Environmental Policy under the ISO 14001:2015 standard.

5. Briefly explain the term ‘environmental aspects’ in ISO 14001:2015.

6. What is an environmental program in ISO 14001:2015?

7. Explain the meaning of compliance obligations in the context of ISO 14001:2015.

8. What is the meaning of 'resources' in the ISO 14001:2015 standard?

9. Briefly explain EMS documented information and provide four key examples of documented information required in ISO 14001:2015.

10. What is the meaning of Nonconformity and Corrective Action in ISO 14001:2015?

Part III (ETQ)

1. Discuss all the requirements under 'Clause 4 Context of the Organization' in the ISO 14001:2015 standard.
2. Explain how to determine significant environmental aspects, set environmental objectives and targets, and establish environmental management programs as per the ISO 14001:2015 standard.
3. Describe why communication is essential for the successful implementation of ISO 14001:2015 Environmental Management Systems.

7 | Page

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