#### 2025 年度名古屋大学大学院医学系研究科博士前期課程 総合保健学専攻 [一般選抜・社会人特別選抜]

#### 専門科目 出題の意図

保健学領域における専門的な学力を問う。

#### 英 語 出題の意図

科学英語の基礎的読解力および保健学領域における専門的な学力を問う。

#### 面 接 質問内容例

進学の動機、希望する研究内容、それに関する知識と理解度、国際性が求められる研究 大学大学院生として入学後に取組むべきこと、将来への展望(思い描くキャリアパス、博士後期課程への進学希望)など

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#### 英 語 出題の意図

科学英語の基礎的読解力および保健学領域における専門的な学力を問う。

Examinee Number
受験番号

## Nagoya University Graduate School of Medicine 2025年度 名古屋大学大学院医学系研究科

## Entrance Examination for the Doctoral Program 博士後期課程入学試験

# English

## Course in Radiological and Medical Laboratory Sciences Field of Radiological Sciences

医療技術学コース 医用量子科学分野

January 7(Tue) 11:00~12:00

## Important Points

注意事項

- 1. Do not open this booklet before the signal to start the examination. 試験開始の合図まで、この冊子を開いてはいけません。
- 2. This booklet consists of <u>6</u> pages, including the cover sheet. この冊子のページ数は、表紙を含めて 6 ページあります。
- 3. Promptly inform the supervisor if there are problems such as omissions, misprints or unclear printing in this booklet.

落丁、乱丁、印刷不鮮明の箇所等があったら、直ちに申し出てください。

4. There are 2 questions. Answer both questions. 問題は2題あります。2題とも解答してください。

5. Before starting your answer, enter your examinee number in the designated space in the upper right of each page.

解答にかかる前に、表紙及び解答欄の右上の所定の箇所に受験番号を記入してください。

6. Write your answers in the designated language, in the designated column. Answers written outside the designated column will not be considered as valid answers.

解答は、指定された言語で所定の欄に記入してください。所定の欄以外に記入した解答は無効です。

7. Do not leave the room before the set time for the examination to end.

試験終了時刻まで退出してはいけません。

8. Do not take this booklet with you when you leave.

この冊子は持ち帰ってはいけません。

大学院医学系研究科博士後期課程試験問題

	Examinee Number 受 験 番 号	
0	0	

[1] Read the following text and answer the questions either in English or Japanese.

この部分につきましては、 著作権の都合により公開いたしません。

Extracts from "The Washington Post, 16 April 2024"

大学院医学系研究科博士後期課程試験問題

	Examinee Number 受 験 番 号	
0	0	
Answer 解 答		
[1] Q1. What is the primary function of the prostate gla	nd?	
Q2. What are the common symptoms of prostate car	acer in its early stage?	
Q3. What is the meaning of the word "aggressive" in	the context of prostate cance	er?
Q4. What factors determine how prostate cancer is t	reated?	
Q5. What is the meaning of the term "active surtreatment?	rveillance" in the prostate o	cancer
treatment:		

大学院医学系研究科博士後期課程試験問題

	Examinee Number 受 験 番 号	
0	0	

[2] Read the following text and answer the questions either in English or Japanese.

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Modified from "Critical Reviews in Oncology / Hematology 196 (2024) 104325"

大学院医学系研究科博士後期課程試験問題

	Examinee Number 受 験 番 号	
	0	
Answer 解答		
[2] Q1. Who is the researcher in parentheses ( $\hfill \ensuremath{\mathbb{Q}}$	)?	
Q2. What was the significant discovery made by Mo and how did it change the perception of its effects?	ole in 1953 regarding radioth	erapy,
Q3. What type of immune cells are activated in the distant tumors?	process of the abscopal effect	to kill
Q4. What is the potential benefit of integrating radio	otherapy with immunotherap	py?
Q5. What has been observed about photons and carb and clinical case reports?	on ions in preclinical investig	ations

大学院医学系研究科博士後期課程試験問題		
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	0	
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Q2. What are the common symptoms of prostate car	ncer in its early stage?	
No symptoms 自覚症状なし		
Q3. What is the meaning of the word "aggressive" in	the context of prostate cancer?	
Aggressive means cancer spread quickly to other pa 他の組織に急速に広がる癌	rts of the body.	
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Treatment selection is based on factors such as preferences. がんの病期、患者の健康状態、患者自身の治療法の好		
Q5. What is the meaning of the term "active su treatment?	rveillance" in the prostate cancer	
No treatment is given, but signs of disease progress therapeutic intervention is provided in a timely man 無治療経過観察ではあるが、病状進行の予兆をいち早療介入する。	nner.	

大学院医学系研究科博士後期課程試験問題		
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0	0	
	er Sheet F 用 紙	
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Q3. What type of immune cells are activated in the distant tumors? Cytotoxic immune cells are activated to kill distan 細胞傷害性免疫細胞が活性化されて遠隔腫瘍を死滅。	t tumors.	1
Q4. What is the potential benefit of integrating rad The integration of radiotherapy with immunother for the systematic eradication of tumors. 放射線治療と免疫療法の統合は、腫瘍の系統的な根紙	rapy holds immense clinical promise	
Q5. What has been observed about photons and car and clinical case reports? They have observed that both photons and carbo immune response of the body and potentiate immunotherapy. 光子と炭素イオンの両方が生体の抗腫瘍免疫反応を対することが観察されています。	on ions can augment the antitumor the occurrence of AEs following	, ;

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