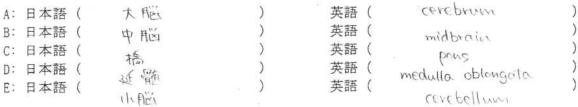
# 平成23年度 ヒト生物学 II 試験問題 H24、2、6 实施

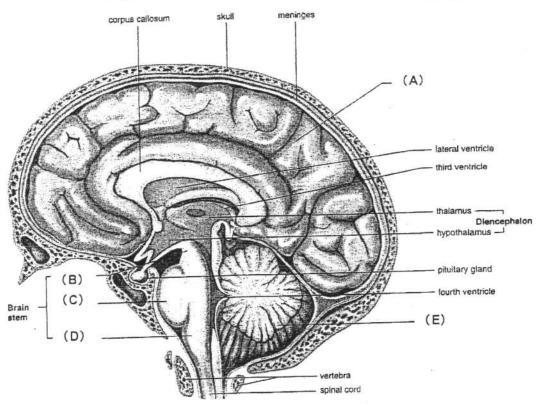
#### 問1:以下の1から10の和文の英訳をA-Jの中から選べ。

1.	角膜		(	G	)	
2.	虹彩		(	A	)	
3.	瞳孔		(	$\subset$	)	
4.	前房水		(	D	)	
5.	視神経		(	H	)	
6.	錐体細胞		(	E	)	
7.	網膜	00	(	J	)	
8.	乱視		(	Ĭ	)	
9.	盲点		(	F	)	
10.	緑内障		(	B	)	

A: iris, B: glaucoma, C: pupil, D: aqueous humor, E: cone cell, F: blind spot, G: cornea, H: optic nerve, I: astigmatism, J: retina,

## 問2:A~Eの空欄に当てはまる脳の解剖学的名称を日本語と英語で記載せよ。





問 3:	
	するものをすべて選べ。
(1)	malleus 〇 水骨
(2)	vestibule×流症
(3)	semicircular canals × 4 4 11
(4)	stapes O 7711 P
(5)	incus O = X TOP
2. 耳の解剖に	へいて聞き が何ふと内側へ向から順来が合っているものをすべて選べ
(1)	auditory canal — tympanic membrane – cochlea ×
(2)	maneus meus stapes
(3)	malleus – auditory tube – pinna ×
(4)	cochlear nerve - round window - facial nerve ×
(5) 211任	semicircular canal - oval window - vestibular nerve ○ ← 🎋
3. organ of Con	rti を構成するものは以下のうちどれかすべて選べ
(1)	hair cell 〇 有毛細胞
(2)	stereocilia 〇 不動毛
(3)	tectorial membrane 〇 蓋膜
	oval window × 如中意
(5)前位	auditory tube メ 国営 存在するものをすべて選べ。
? 4. vestibule 12	存在するものをすべて選べ。
	otoliths 耳石
前日1201 (2)	hair cell 有毛細胞
14 416 (2)	spiral ganglion フセン神経的
(4)	round window 〇 正中层
(5)	pinna × FA
問1・もっとも関	連するホルモンを一つ選びなさい。
1. Pituitary gla	
(a) prolactin	b. insulin c. estrogen d. parathyroid hormone e. calcitonin
2. Calcium hor	,
a. prolactin	b. insulin c. estrogen d. parathyroid hormone e. thyroxine
3. ACTH	
a. parathyroid	hormone b. ADH c. cortisol d. adrenaline e. thyroxine
	y 关端铁套 … 治摩···
a. thyroxine	
5. Cushing's s	
a. growth hor	mone (b.) cortisol c. ADH d. adrenaline e. vthyroxine
問 5 · Choose the	best term for each definition.
1. ( h ) Bac	terial enzyme that stops viral reproduction by cleaving viral DNA; used to cut DNA at
specific point	s during production of recombinant DNA.
2 ( C ) DN	A that has been synthesized from mRNA by the action of reverse transcriptase.
3. ( ¿ ) Du	ring transcription, an enzyme that joins nucleotides complementary to a DNA template.
	zyme that links DNA fragments; used during production of rDNA to join foreign DNA to
vector DNA.	nthesis of a new DNA double helix prior to mitosis and meiosis in eukaryotic cells and
5. ( ) Syr	yotic fission in prokaryotic cells.
6 ( \_ \Prov	duction of identical copies; can be either the production of identical individuals or, in
genetic engin	eering, the production of identical copies of a gene.
7. ( 9 ) Strir	ng of ribosomes simultaneously translating regions of the same mRNA strand during
protein synthe	esis.
8. ( 🔎 ) Tyj	pe of RNA formed from a DNA template that bears coded information for the amino acid

	9. (		f a polypeptide.  Three-base sequence in a	tRNA molecule ba	ase that pairs wit	h a complementary o	odon in	
	10.							
		DNA I	igase, e DNA replication of the contraction of the	ation,	complementary messenger RNA RNA polymerase	(mRNA),		
門	6:	説明文を	を表す語句を( )内	に英語と日本語	で書きなさい。	150		
		説明文: Repeating sequence of cellular events that consists of interphase, mitosis, and cytokinesis						
		英語:	( cell cycle	)	日本語:(	展問朝時	)	
	2.	説明文:	Constriction where siter ch	romatids of a chro	mosome are held			
		英語:		)	日本語:(	動脈体	)	
	3.	説明文:	Cell cycle stage during wh	ich growth and DN	NAsynthesis occu	ir when the nucleus i	s not	
		actively d	lividing					
		英語:	( interphase			門時間	)	
	4.		Type of nuclear division th				ighter	
			ive the haploid number of ch	romosomes in var			- 5	
		英語:	( MEIOSIS	)	日本語:(	成数分裂	)	
	5.		Movement of a chromoson	ial segment from	one chromosome	to another nonhomo	logous	
		chromoso		×	D +== /	+	Α.	
		英語:		J	日本語:(	車心坐	,	
	6.		One more chromosome that		口士而. (	11115	Υ.	
	-	英語:	( trisony		日本語:(		,	
	1.		Diploid cell formed by the	union of sperm an			1	
	0	英語:	zygote	)	日本語:(	接合子	) 	
	8.		Failure of homologous chro	omosomes or daug	inter chromosom	es to separate during	meiosis	
		英語:	osis II, respectively	)	日本語:(	不分離	)	
	Q		Particular site where a gene			个为南西	-	
	<i>3</i> .	英語:	100 DESCRIPTION OF THE PROPERTY OF THE PROPERT		日本語:(	di Cali	)	
	10		( genetic (or Visible expression of a gen					
	10.	英語:	( phenotype	)	日本語:(	表現型	)	
	11		Possessing unlike alleles for	r a particular trait		14. H. 7.	<i>*</i> 2	
	11.	英語:	/	1	日本語:(	ヘテロ接合	)	
	12		Exchange of segments betw	veen nonsister chr				
	12.	英語:	( crossing-ov		日本語:(	乗換え	)	
	13.		Alternative forms of a gene				mes	
		英語:	( allele	)	日本語:(	对立进行。子	)	
	14.		Haploid sex cell; the egg or	a sperm, which jo				
	5 550	英語:	( gamete	)	日本語:(	西世界子	)	
	15.		章の[]内に適切な数	字を記入しなさい		EICIGN 3		
			(但しS期とG2期を関			量を 2C と記載し	た場合,	
			観察することのできる細					
	10	Cである			and the second of the second o			
			77.					
	7:							
	1.	次の(	)に当てはまる語句を	と英語で書きなさ	い。			
1. (Carcinomos) originate in epithelial tissues.								
2. ( Careanage ) originate in muscle and connective tissues.								

- 3. ( Leukemins ) originate in blood.
- 4. ( Lymphomos ) originate in lymphatic tissue.
- 5. Cancer cells lack (differentiation) and do not contribute function.
- 2. 次の定義に当てはまる語句を英語で書きなさい。
  - 6. End of chromosome that prevents it from binding to another chromosome; normally gets shorter with each cell division. ( telomere )
  - 7. Environmental agent that contributes to the development of cancer. (carcinogen)
  - 8. Normal gene involved in cell growth and differentiation that becomes an oncogene through mutation. (proto-oncogene)
  - 9. Formation of new blood vessels, such as a capillary network. (angiogenesis)
  - 10. Spread of cancer from the place of origin to throughout the body; caused by the ability of cancer cells to migrate and invade tissues. (metastosis)

#### 問8:

- 1. 以下の単語の日本語訳を記入しなさい。
  - (1) homeostasis
- 相常时
- (2) life span and health span
- あ命と 健民寿命

- (3) diabetes type 2
  - 2型網展点
- 用杆鱼过加 (4) andropause

(5) incontinence

- (6) osteoporosis
- (7) prostate gland 前主腺
- (8) gerontology

(9) menopause

- (10) autoimmune disease
- 2. The following sentences describe the human reproduction, development, and aging. Mark (circle) in parentheses if they are correct, and X (cross) if they are wrong.
  - (11) (x) Early development of a human embryo proceeds in the following order.
    - morula → blastula → neurula → gastrula
  - (12) (x) Pregnancy tests are based on the fact that estrogen is present in the blood and urine of apregnant woman.
  - (13) (X) Endoderm becomes nervous system, the lining of the digestive and respiratory tracts and associated organs.
  - (14) ( ) The extraembryonic membranes include the chorion, the amnion, the yolk sac, and allantois.
  - (15) ( ) Blood of the mother and the fetus never mix in the placenta since exchange always takes place across plasma membranes.

### 問9:以下の文章で正しいものに○を、正しくないものは×をつけよ。

- 1. 膣腔は腹腔と連続している。○
- 2. ゴナドトロピンは視床下部で産生される。×
- 3. 正常な月経周期を有する女性の基礎体温の高温層は通常2週間である。〇
- 4. エストロゲンは子宮内膜の増殖を抑制する。×
- 5. 排卵から着床までは通常2週間かかる。

(侵幣後約12日で着京が完ま)