

NEET NEURAL CONTROL AND COORDINATION — CENTRAL NEURAL SYSTEM: FOREBRAIN, MIDBRAIN, HINDBRAIN — PYQS

Max. Marks: 52

Questions: 13

Section A (MCQ) — 13 questions

Q.1 Which of the following is not a part of human central neural system? [RE-NEET (UG) 2026]

- (1) Pericardium (2) Arachnoid
(3) Dura mater (4) Pia mater

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Q.2 Match List I with List II:

List - I		List - II	
A.	Pons	I.	Provides additional space for Neurons, regulates posture and balance.
B.	Hypothalamus	II.	Controls respiration and gastric secretions.
C.	Medulla	III.	Connects different regions of the brain.
D.	Cerebellum	IV.	Neuro secretory cells

Choose the correct answer from the options given below :

[NEET (UG) 2024]

- (1) A-II, B-III, C-I, D-IV (2) A-III, B-IV, C-II, D-I
(3) A-I, B-III, C-II, D-IV (4) A-II, B-I, C-III, D-IV

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Q.3 Given below are two statements:

Statement-I: The cerebral hemispheres are connected by nerve tract known as corpus callosum.

Statement-II: The brain stem consists of the medulla oblongata, pons and cerebrum.

In the light of the above statements, choose the most appropriate answer from the options given below:

[NEET (UG) 2024]

- (1) Both Statement-I and Statement-II are correct.
(2) Both Statement-I and Statement-II are incorrect.
(3) Statement-I is correct but Statement-II is incorrect.
(4) Statement-I is incorrect but Statement-II is correct.

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Q.4 The parts of human brain that help in regulation of sexual behaviour, expression of excitement, pleasure, rage, fear etc. are: [NEET (UG) 2023]

- (1) Corpora quadrigemina and hippocampus
(2) Brain stem and epithalamus
(3) Corpus callosum and thalamus
(4) Limbic system and hypothalamus

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Q.5 Which part of the brain is responsible for thermoregulation? [NEET (UG) 2019]

- (1) Corpus callosum (2) Medulla oblongata
(3) Cerebrum (4) Hypothalamus

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Q.6 Which of the following structures or regions is incorrectly paired with its functions? [NEET 2018]

- (1) Medulla oblongata : Controls respiration and cardiovascular reflexes
(2) Corpus callosum : Band of fibers connecting left and right cerebral hemispheres
(3) Hypothalamus : Production of releasing hormones and regulation of temperature, hunger and thirst
(4) Limbic system : Consists of fibre tracts that interconnect different regions of brain; controls movement

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Q.7 Which of the following regions of the brain is incorrectly paired with its function?

[AIPMT 2015 (Cancelled)]

- (1) Corpus callosum - communication between the left and right cerebral cortices
(2) Cerebrum - calculation and contemplation
(3) Medulla oblongata - homeostatic control
(4) Cerebellum - language comprehension

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Q.8 Injury localized to the hypothalamus would most likely disrupt [AIPMT 2014]

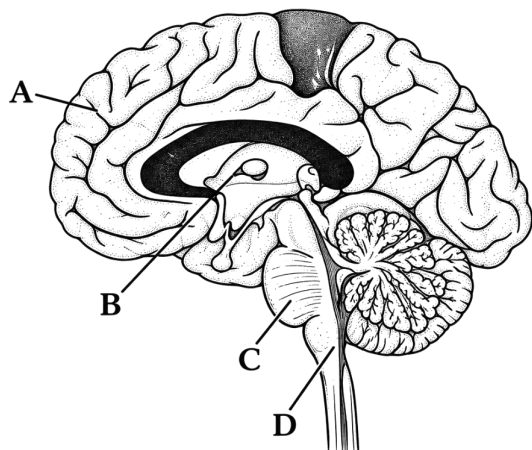
- (1) short-term memory
- (2) co-ordination during locomotion
- (3) executive functions, such as decision making
- (4) regulation of body temperature.

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Q.9 A sagittal section of human brain is shown here. Identify at least two labels from A-D.

[NEET 2013 (Karnataka)]



- (1) A-Cerebral hemispheres, B-Cerebellum
- (2) B-Corpus callosum, D-Medulla
- (3) C-Mid brain, D-Cerebellum
- (4) A-Cerebrum, C-Pons

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Q.10 The human hind brain comprises three parts, one of which is

[AIPMT 2012 (Prelims)]

- (1) spinal cord
- (2) corpus callosum
- (3) cerebellum
- (4) hypothalamus.

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Q.11 Select the answer with correct matching of the structure, its location and function.

[AIPMT 2010 (Mains)]

	Structure	Location	Function
(1)	Eustachian tube	Anterior part of internal ear	Equalises air pressure on either side of tympanic membrane
(2)	Cerebellum	Midbrain	Controls respiration and gastric secretions
(3)	Hypothalamus	Forebrain	Controls body temperature, urge for eating and drinking
(4)	Blind spot	Near the place where optic nerve leaves the eye	Rods and cones are present but inactive here

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Q.12 The nerve centres which control the body temperature and the urge for eating are contained in

[AIPMT 2010 (Prelims)]

- (1) hypothalamus
- (2) pons
- (3) cerebellum
- (4) thalamus

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Q.13 Which part of human brain is concerned with the regulation of body temperature?

[AIPMT 2009]

- (1) Cerebellum
- (2) Cerebrum
- (3) Hypothalamus
- (4) Medulla oblongata

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ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11
Ans.	1	2	3	4	4	4	4	4	4	3	3
Ques.	12	13									
Ans.	1	3									