

TESTS ON HUMAN ANATOMY FOR PRE-EXAM TESTING OF STUDENTS

VEGETATIVE NERVOUS SYSTEM

1. The vegetative nervous system innervates:

1. Skeletal muscles;
2. Smooth muscular fibers of internal organs;
3. Smooth muscular fibers of vessels;
4. Glandular tissue;

2. Specify a location of bodies of sensitive (1st) neurons of vegetative reflex arches:

1. Spinal ganglion;
2. Posterior horns of the spinal cord;
3. Sensory ganglions of cranial nerves;
4. Vegetative ganglions;

3. Specify a location of bodies of intermedian neurons of vegetative reflex arches:

1. Nuclei of the posterior horn of the spinal cord;
2. Intermediolateral nucleus of the spinal cord;
3. Vegetative nucleus of cranial nerves;
4. Spinal ganglions;

4. Specify a location of bodies of motor neurons of vegetative reflex arches:

1. Vegetative nucleus of cranial nerves;
2. Intermediolateral nucleus of the spinal cord;
3. Nuclei of anterior horn of the spinal cord;
4. Vegetative ganglions;

5. Which type of ganglions concern to sympathetic nervous system?

Paravertebral (1st order);
Prevertebral (2nd order);
Paraorganic;
Intraorganic;

6. Specify functions of vegetative ganglion:

1. Reflex;

- 1.
- 2.
- 3.
- 4.
2. Switching an impulse from pre- to postganglionic fiber;
3. Receptor;
4. Conducting;

7. Which segmentary centers are parasympathetic?

1. Mesencephalic center;
2. Bulbar center;
3. Thoracolumbar center;
4. Sacral center;

8. Specify vegetative nuclei of bulbar center:

1. Nucl. accessorius n. oculomotorii;
2. Nucl. Salivatorius superior;
3. Nucl. Salivatorius inferior;
4. Nucl. dorsalis n. vagi;

9. Specify the location of the episegmentary vegetative centers:

1. Medulla oblongata;
2. Cerebellum;
3. Hypothalamus;
4. Nuclei of colliculi of the midbrain;

10. What is true for the vegetative nervous system?

1. Segmentary location of the centers;
2. Thin myelin coat of nervous fibers;
3. Presence of peripheral reflex arches;
4. Principle of polysegmentar innervations of the organs;

11. What is true for the sympathetic department of VNS:

1. Short postganglionic fibers;
2. Universality of distribution;
3. Guarding role;
4. Adaptation and trophic function;

12. To which ganglions of the sympathetic trunk do the white communicating branches pass?

1. G. cervicale superius;
2. G. cervicale medium;
3. Gg. thoracica;
4. Gg. sacralia;

13. Specify, which ganglions of a sympathetic trunk have grey connecting branches:

1. Gg. cervicalia;
2. Gg. thoracica;
3. Gg. lumbalia;
4. Gg. sacralia;

14. Specify branches, which depart from the sympathetic trunk:

1. Rr. communicantes albi;
2. Rr. meningei;
3. Rr. communicantes grisei;
4. Nn. splanchnici;

15. Which nerves contain preganglionic sympathetic fibers?

1. Rr. communicantes grisei;
2. Rr. communicantes albi;
3. N. petrosus profundus;
4. Nn. splanchnici;

16. Specify branches, which depart from the superior cervical ganglion:

1. Rr. communicantes albi;
2. Rr. communicantes grisei;
3. N. vertebralis;
4. N. caroticus internus;

17. Specify branches, which depart from cervicothoracic (stellate) ganglion:

1. N. vertebralis;
2. N. cardiacus cervicalis inferior;
3. Nn. carotici externi;
4. Rr. laryngopharyngei;

18. Specify the branches departing from the internal carotid plexus:

1. N. petrosus major;
2. N. tympanicus;
3. Nn. caroticotympanici;
4. N. petrosus profundus;

19. What are the branches of thoracic part of the sympathetic trunk?

1. N. splanchnicus major;
2. N. phrenicus;
3. Nn. cardiaci thoracici;
4. Rr. communicantes grisei;

- 1.
- 2.
- 3.
- 4.

20. Which type of fibers can be found in nn. splanchnici major et minor:

1. Parasympathetic fibers;
2. Sympathetic fibers;
3. Somatomotor fibers;
4. Sensory fibers;

Which

- 1.
- 2.
- 3.
- 4.

21. vegetative ganglions take part in formation of plexus coeliacus?

- G. mesentericum superius;
- G. mesentericum inferius;
- Gg. coeliaci;
- Gg. aorticorenalia;

22. Specify the nerves participating in formation of the plexus coeliacus:

1. N. vagus;
2. N. phrenicus;
3. N. splanchnicus major;
4. Nn. splanchnici lumbales;

23. Which ganglions are present in plexus hypogastricus inferior?

1. Gg. coeliaci;
2. G. mesentericum inferius;
3. Gg. sacralia trunci sympathici;
4. Paraorganic pelvic ganglions;

24. Which structures participate in formation of plexus hypogastricus inferior?

1. Nn. splanchnici sacrales;
2. Nn. splanchnici pelvini;
3. Plexus mesentericus inferior;
4. N. vagus;

25. Which ganglions are parasympathetic?

1. G. oticum;
2. G. pterygopalatinum;
3. G. ciliare;
4. Gg. coeliaci;

26. Which branches depart from g. pterygopalatinum?

1. Nn. palatini;
2. Rr. pharyngei;
3. Nn. ciliares breves;
4. Rr. nasales posteriores;

Which

- 1.
- 2.
- 3.
- 4.

27. Which muscles does the parasympathetic nervous system innervate?

1. M. dilatator pupillae;
2. M. stapedius;
3. M. ciliaris;
4. M. sphincter pupillae;

28. Which type of fibers is present in vagus nerve?

1. Somatomotor;
2. Sensory;
3. Parasympathetic;
4. Sympathetic;

29. type of fibers is present nn. splanchnici pelvini?

- Somatomotor;
- Sensory;
- Sympathetic;
- Parasympathetic;

30. Where is localization of bodies of first neurons of interceptive analyzer?

1. Vegetative ganglions;
2. Spinal ganglions;
3. Ganglions of cranial nerves;
4. Intermediolateral nucleus of the spinal cord;

31. Where bodies of second neurons of interceptive analyzer are situated?

1. Nuclei of posterior horns of the spinal cord;
2. Nucl. gracilis et cuneatus;
3. Nuclei intermediolaterales of the spinal cord;
4. Nuclei of anterior horns of the spinal cord;

32. Where is the cortical center of interceptive analyzer:

1. Gyrus precentralis;
2. Gyrus temporalis superior;
3. Gyrus angularis;
4. Gyrus postcentralis;

Which

- 1.
- 2.
- 3.
- 4.

33. Specify sympathetic and parasympathetic segmentary centers for organs of the abdominal cavity innervation:

1. Nuclei intermediolaterales of thoracic segments of the spinal cord;
2. Nuclei intermediolaterales of lumbar segments of the spinal cord;
3. Nuclei intermediolaterales of sacral segments of the spinal cord;
4. Nucl. dorsalis n. vagi;

34. Specify the parasympathetic segmentary centers for organs of pelvis:

1. Nuclei intermediolaterales of lumbar segments of the spinal cord;
2. Nuclei intermediolaterales of sacral segments of the spinal cord;
3. Nucl. dorsalis n. vagi;
4. Vegetative ganglions of the pelvis;

35. Specify the locations of sensory neurons for organs of pelvis:

1. Plexus hypogastricus inferior;
2. G. mesentericum inferius;
3. Lumbar spinal ganglions;
4. Sacral spinal ganglions;

36. Specify ganglion from which the secretory fibers to the lacrimal gland begin:

1. G. ciliare;
2. G. pterygopalatinum;
3. G. oticum;
4. G. submandibulare;

37. nerve innervates the parotid gland pass?

- N. petrosus major;
- N. petrosus minor;
- Chorda tympani;
- N. petrosus profundus;

38. In structure of which nerve do the preganglionar parasympathetic fibers for sublingual salivary gland pass?

1. N. petrosus minor;
2. N. petrosus major;
3. N. tympanicus;
4. Chorda tympani;

Which

- 1.
- 2.
- 3.
- 4.

39. Specify the sympathetic and parasympathetic segmentary centers for innervation of heart:

1. Cervical ganglions of the sympathetic trunk;
2. Nuclei intermediolaterales of the upper thoracic segments of the spinal cord;
3. Nuclei intermediolaterales of the lower thoracic segments of the spinal cord;
4. Nucl. dorsalis n. vagi;

40. Specify vegetative ganglions from which postganglionic sympathetic fibers to the heart begin:

1. G. cervicale superius;
2. G. cervicale medium;
3. G. cervicale inferius;
4. Gg. thoracica trunci sympathici;

41. Specify the locations of sensory neurons for the heart:

1. Ganglions of the sympathetic trunk;
2. Cervical spinal ganglions;
3. Thoracic spinal ganglions;
4. Ganglions of the vagus nerve;

42. Specify vegetative ganglions from which postganglionic sympathetic fibers to lungs begin:

1. G. cervicale superius;
2. G. cervicothoracicum;
3. Gg. thoracica trunci sympathici;
4. Gg. terminalia;

43. Specify the segmentary centers of sympathetic and parasympathetic innervation of sigmoid colon:

1. Nucl. dorsalis n. vagi;
2. Nuclei intermediolaterales of the lower thoracic segments of the spinal cord;
3. Nuclei intermediolaterales of the upper lumbar segments of the spinal cord;
4. Nuclei intermediolaterales of the sacral segments of the spinal cord;

- 1.
- 2.
- 3.
- 4.

44. Specify nervous fibers, supplying rectum:

Sensory;

Somatomotor;

Parasympathetic; Sympathetic;

45. Specify vegetative ganglions from which the postganglionic sympathetic fibers to the testis begin:

1. Gg. trunci sympathici;
2. Gg. aorticorenalia;
3. G. mesentericum inferius;
4. Plexus hypogastricus inferior;

46. Specify the sympathetic and parasympathetic segmentary centers for the urinary bladder innervation:

1. Nucl. dorsalis n. vagi;
2. Nuclei intermediolaterales of the lower thoracic segments of the spinal cord;
3. Nuclei intermediolaterales of the lumbar segments of the spinal cord;
4. Nuclei intermediolaterales of the sacral segments of the spinal cord;

47. Specify vegetative ganglions, from which the postganglionic fibers to urinary bladder begin:

1. Gg. coeliaci;

2. G. mesentericum inferius;
3. Plexus hypogastricus inferior;
4. Gg. terminalia;

Key to the test on "Vegetative nervous system"

1.	234	11.	24	21.	134	31.	12	41.	1234
2.	134	12.	3	22.	1234	32.	14	42.	23
3.	23	13.	1234	23.	4	33.	14	43.	34
4.	4	14.	34	24.	123	34.	2	44.	1234
5.	12	15.	24	25.	123	35.	1234	45.	2
6.	1234	16.	24	26.	14	36.	1	46.	34
7.	124	17.	12	27.	34	37.	2	47.	234
8.	234	18.	34	28.	123	38.	4		
9.	123	19.	134	29.	24	39.	24		
10.	234	20.	24	30.	123	40.	1234		