

CONTENT

BIOLOGICAL SCIENCES

- Bachura J. M., Khrumchenkova O. M. Weeds of solid domestic waste landfill soil and of some Gomel street*** 3
- Summary*
- Solid algae of Gomel city polygon of solid sanitary waste and some streets of Gomel (Belarus) has been investigated. 77 species of algae, related to 50 genera, 35 families, 21 orders, 7 classes of Cyanophyta, Xanthophyta, Bacillariophyta и Chlorophyta has been revealed. Green algae dominated in forming of algaegroups of the given disturbed territories. Participation of Cyanea was considerable; yellow-green algae were developing less actively. Equity participation of diatoms in algae community content of streets` soil made 23,53% on the territory of polygon of sanitary waste – is 12%. The dominance of algae, related to B and Ch-life forms (23 and 21% relatively) is registered in spectrum of life-forms in soils of streets of Gomel being under investigation; on the territory of polygon sonitary waste – Ch and P forms (29 and 19%).
- Valetov V. V., Degtjareva E. I. Dose-forming foodstuff in the diet of the population of north-east part of Gomel Region*** 10
- Summary*
- In given article results of researches by definition food stuffs in daily ration of the population of the northeast of the Gomel area are presented. The dose of an intrinsic irradiating of the population of Chechersky, Vetkovsky, Dobrushsky areas in the season with 2008 for 2010 was formed basically at the expense of milk. In article results of radiometric researches of the food stuffs effected in personal and collective farms above listed areas are presented.
- Gajduchenko E. S., Botvich A. M. Species composition and diversity of small mammals in forests of Gomel Polesye*** 17
- Summary*
- On the basis of carried out ecological fauna researches of small mammals inhabited in forest tracts of 2 regions in Gomel Polesye, the analysis of specific variety, relative distribution and ecological structure of small mammals communities is represented. 1893 individuals were caught, the inhabitation of 11 species was registered. In all communities, examined forest formations, *Gletrionomys glareolus* dominated. Numerous species were *Apodemus flavicollis*, *Sorex araneus* and *Apodemus silvaticus*. The differences in structure of small mammals groups communities were registered in summer and winter time of the year and depending on the region of researches.
- Guminskaja E. J. The influence of endocrine status on the survival of spermatozoids in the female tracts of cows and heifers*** 22
- Summary*
- The results of the influence of hormonal status on the survival of spermatozoa in the genital tract of cows and have been conducted. It was established that for the beginning of hunting characterized by higher levels of cortisol $111,8 \pm 17,7$ nmol/ml at the end of hunting $81,9 \pm 10,9$ nmol/ml. Spermatozoa placed in uterus beforehand, appeared in milieu, inadequate to their functional condition (corisol content $92,5 \pm 25,5$ nmod/ml, extracted $14,0 \pm 3,0$ thousand of spermatozoa), where they should go later when the milieu itseif possessed another qualities (content of corisol made $80,4 \pm 1,3$ nmol/ml, gantity of extracted spermatozoa – $23,4 \pm 3,9$ thousand).

Kotovich I. V., Pozyvailo O. P., Zaicev S. J. Marks of peroxide oxidation of lipids and blood plasma antioxidant system of broiler chickens in a period of intense growth depending on body weight 27

Summary

The state of the lipid peroxide oxidation (POL) and blood plasma antioxidation system (AOS) for the 10-days broiler chickens of different body weight of the cross «Ross 308» by Smolevichskoi broiler factory has been investigated. It has been stated that chickens have high intensity lipid peroxide oxidation processes at the end of the first decade of the body growth.

Krischuk I. A., Lebedev N. A. Integral assessment of the natural honey quality in the south-east part of the Belarusian Polesye 32

Summary

The article deals with the complex evaluation of the quality of natural honey on physical and chemical indices, mineral composition, the content of heavy metals and cesium-137 under existing conditions of the south-east of Belarusian Polesye. The complex evaluation was conducted for the first time. It was established that the honey produced in the south-east of Belarusian Polesye meets the requirements of GOST 19792–2001, NPL–99 and is notable for a high content of copper, cobalt, manganese, selenium and zinc.

Lipinskaja T. P. Ecological quality of water from 2-4 channel order rivers of the Dnieper basin..... 38

Summary

The community of macrozoobenthos in rivers of 2–4-th order of the Dnipro Basin in spring and autumn 2010 has been studied. The ecological water quality was defined by structural parameters of macrozoobenthos communities, biotic indices and reference sites. The water quality in sites in the spring was lower than in autumn. It is shown that the most adequate assessment of water quality according to hydrochemical and taxonomic data of the studied sites give a biotic index EPT, BMWP and IBGN. It is established that the river Usha and Gayna were the most ecologically undisturbed sites, which can be used as a reference to the rivers the 2–3rd order rivers and 4th order respectively. Water quality assessment in the relation to the standard alignment, allows to characterize water quality of rivers more strictly in comparison with the system, based on biotic indices.

Lysenko A. N., Goncharenko G.G., Zjatkov S.A. Mutant pigmentation genes' frequency of occurrence and its connection with disease incidence among domestic cats *Felis catus* 45

Summary

The spectrum of diseases, that *Felis catus domestikus* living in Gomel the second city by population in Belarus have, was determined in the result of carried out research of *Felis catus* population with use of 7 genes, which control colour and structure of fur was determined.

Mischenko M. F., Bodilivskaja O. A., Sikorskij V. G., Golubev A. P. Levels of invasibility of pulmonate gastropod with fluke larvae in different-type water bodies in the south-east part of Belarusian Polesye 50

Summary

Research data on defining the level of invasion of lungwhelk by fluke worm in different types of basins in south-eastern part of Belarusian Polesye are given in the article.

Roj J. F., Levkovskaja M. V. Fracturing types and bark's protective properties of Scots pine (*Pinus sylvestris* L.) in the south-west part of Belarus 55

Summary

Research of a shaped variety of *Pinus sylvestris* on the bark in conditions of the south-west of Belarus is conducted for the first time. Morphological forms *Pinus sylvestris* L. have been isolated in natural pine stand. Influence of the period inception of and repeated periderms on protective properties of cover tissues is investigated. The protective role of crust *Pinus sylvestris* L. at local fires in various types of pine woods in investigated territories is revealed.

Jatsyna A. P. Lichens' life-forms classification in pine formation of Belarus 61

Summary

Lichenobiota of pine formation of Belarus is studied. 199 species of lichen, biongs belonging to 1 section, 3 classes, 11 orders, 28 families and 78 genera were found. Classification of vital forms of lichen pine formation was done taking into consideration the received data.

PEDAGOGICAL SCIENCES

Bolbas G. V. Historical prerequisites of the development of nature-aligned principle in education in the period of Belarusian Renaissance 66

Summary

This article reveals cultural-historical and social-economic conditions and factors which determine the peculiarity and directions of development of the principle of conformable to nature education in pedagogical science and education in Renaissance Belarus.

Vishnevetskaja L. V. Organizational and pedagogical conditions of students' civic engagement development while extracurricular 70

Summary

The results of the research devoted to theoretical and experimental grounds of pedagogical conditions of systemic extra-curricular activities arrangement in the higher educational establishment ensuring effective development of constructive civil activity of students' youth in various spheres of its vital activity for the welfare of personality, society and state have been presented in this article. The given material can be used by pedagogical staff, methodologists, leaders of non-government youth associations for organizing open partnership interaction on providing improving educational process in higher school in different kinds of extra-curricular activities.

Vorobej L. A., Kuzmenkova I. A., Gribovskaja M. A. Organization of the productive educational process on the basis of modular rating knowledge assessment system 76

Summary

This article describes the practical experience of the authors on the organization of work in the conditions of module-rating system of estimation of students' educational activity. The advantages and disadvantages of the system identified in the course of its implementation are determined.

Gorovoj V. A., Maslovskij E. A., Jakovlev A. N. Integrated assessment parameterization of motor manifestation typology of students aged 17-20... 80

Summary

Untraditional approaches to the individualization of the process of students, physical education in the structure of parameterization of complex evaluation of typology of their moving manifestation are revealed in the article. The aim of this work is to predict the results and personal satisfaction of the person in his physical perfection and organization of the healthy way of life.

Ivanov S.A. Olympic education as a metasubject 88

Summary

In the article the problem of Olympic education as metasubject is considered. The author suggests to consider modern Olympic education not as a separate subject, a group of subjects, a study discipline or a special course but as a metasubject. The supersubjectiveness of the Olympic education is as follows: it is presented on all educational levels, beginning from preschool and finishing the higher education; it is possible to be engaged in Olympic education not only at physical culture training, but also in the course of studying of other study disciplines; the Olympic education can be included in all kinds of teaching and educational work; the Olympic education is an integral component of improvement of professional skill of the pedagogical staff.

Kovalevich M. S. Professionally-valuable self-identity in the course of university education 97

Summary

In today's world – an open, mobile, speeding, volatile, which increases the probability of rare events, namely the values are for human guidance to help it find its own path in life, giving the power to change ourselves and the world. The most important condition of the value of self-determination of personality, both students` and teachers` in university education in favor of diagnostic of educational environment of the University, which is implemented by humanitarian departments. The department acts as an intermediary between the university and the individual in this process, sense-part of university education, the center of the educational space of the University. The article gives a prognostic analysis of the concept of professional self-determination of the value of personality in the university with the example of the Department of Pedagogics of Childhood of Brest State University named after AS Pushkin.

Kolesnichenko E. A. Revisited the culture of nonverbal communication in a professional activities of a social care teacher 104

Summary

The article is devoted to the problem of verbal communication in the professional activity of the social teacher. The terms «verbal communication», «verbal behavior», «the culture of un verbal communication», «means of un verbal communication», «un verbal skills» have been analyzed.

Korzun D.L., Koleda V.A., Pereverzev V.A. State of physical development and physical fitness of children involved in football and not involved in sports 109

Summary

The dynamics of indicators of physical development (body weight and length, vital capacity of lungs and breath delay on inhalation and exhalation) and physical readiness (time of running 30 meters from high start, length of standing jump) of football players of 8–10 years old for two summer periods of activities in comparison with similar indicators for children who are not engaged in sports are considered in this present study. First of all, functional indicators of delay in breathe increase with the increase in of impellent activity of young football players. Correspondingly, parallel increases in close interrelation are also noted as regards to the body weight (precisely muscular weight), body length, vital capacity of lungs, and the indicators of physical readiness.

Lemeshkov V. S. Physiological mechanisms of the influence of hormonal cycles on changes in the performance of highly-qualified athletes in race walking 115

Summary

The article is devoted to the important questions of sport physiology and sport medicine.

<i>Palieva T.V., Reutskaya O.A. Model of the usage of interactive presentations in students' self-guided work</i>	120
--	-----

Summary

The theoretical and technological aspects of problems of development and application of interactive presentations for organization of independent educational schoolchildren's work are examined in this article. The aim, pedagogical conditions, stages of development and application, advantages, objectives and structure of complex interactive educational presentations are defined. These positions underlay for model of application of interactive presentations in independent educational work.

<i>Romanov K. J. Formation of the physical health among schoolchildren living in areas contaminated with radionuclide</i>	127
--	-----

Summary

The health-improving programs for the junior schoolchildren who live on the ecologically adverse areas are established in the article. The content and organization of the process of physical education and also the methods of individual regulation of the intensity of physical loads on basis of the individual level of physical health of junior schoolchildren are grounded in the article. There are systems of exercises for the pupils of different classes with different levels of physical health and physical readiness.

<i>Khitryk V. V., Ponomareva E. I., Korshkova A. R., Jurchenok L. A. Psychological and educational support of students with special needs in the educational environment of the university: the principles of organization and implementation</i>	133
--	-----

Summary

The topical problem of the psychological-pedagogical accompanying of the students with psychophysical development problems in the educational sphere space is examined in the given article on the basis of the special literature analysis. It is ascertained that the psychological-pedagogical accompanying is an integral systemic process of interaction between an accompanying person and an accompanied one, which is created on the basis of special rules. Different classifications of the organization and execution rules of the psychological-pedagogical accompanying of students with physical and psychological development problems are analyzed. An original set of rules which provide efficiency of the interaction process between the accompanying subjects is proposed.

PHYLOLOGICAL SCIENCES

<i>Korsak O. N. On the question of archaism and innovation of northern peripheral Polish dialect of the XVIII century (based on the material of Polish-wills drawn up on the territory of Belarus)</i>	138
---	-----

Summary

The description of the morphological features of the provincial northern Polish dialect is presented. It is based on the archival texts from the Belarusian territories. The conclusion is drawn that the language of the documents corresponds to the development of tendencies of the literary Polish of the 18th century. It is shown that archaisms aren't a characteristic feature of the language of the investigated texts. The innovations in the morphological forms were caused by the influence of the Belarusian language.

<i>Martysjuk N. P. Integrative model of massage apprehension: a critical review of the existing approaches</i>	145
---	-----

Summary

The present paper is devoted to the analysis of different multidisciplinary approaches to the problem of perception. Such an approach to perception reveals its interactive character within the act of communication.

Milenkevich N. I. "The Song about the Nibelungs" and heroic songs of Kosovo cyclus: typological relations 153

Summary

Typological relations and comparative description of the German and Serbian heroic epos in this article are revealed. «The Nibelungenlied» and heroic songs from Kosovo cycle are used as the basis of the research material. Typological analogies are caused by similar social and political situation of the Holy Roman Empire and Serbia in the Middle Ages. Besides a genregenerality, the general problems unite «The Nibelungenlied» and songs from Kosovo cycle. Sharp conflicts of the Middle Ages are reflected in these works. Consequences of division of the country in isolated parts, the conflicts of princes and weak central power which can cause the death of the entire country, are shown these.

Sazhina E. V., Prokopenko L. S. Intertextual inclusion as a means of polemical discourse dialogization in print media (based on the example of English press) 158

Summary

The article is devoted to the study of language means of realization of intertextual links, the definition of functions of intertextual inclusions and their contribution to the realization of the dialogical function of the polemic discourse of Mass Media printed in English. In the course of the research on the material of English problem articles and responses to them we define the repertoire of intertextual inclusions which are characteristic of the realization of the expressive contact and reference functions which contribute to the realization of dialogical relations between the structural components of the polemic discourse of printed Mass Media – the problem article and readers' responses. It has been found out that citation is the most widely-used marker of intertextuality in problem articles. On the other hand, such intertextual inclusions as references to other readers, Internet addresses and articles in other newspapers as well as reminiscences and citations are characteristic of readers' responses in the English press. The distinguished language markers of intertextuality in the whole realize the dialogical function of the polemic discourse of printed Mass Media.

Chalova O. N. Communicative responses to non-judgemental cues in the scientific dispute 163

Summary

The article focuses on the problem of structural and pragmatic characteristics of conference discussions. The general objective of the paper is to identify illocutionary and functional aspects of speech exchanges of the model «a representative speech act – a verbal reaction». As a result of the research, it has been found that initiative speech are more diverse (in terms of illocutionary structure and functions) than responses.

Shpakovskaya V.A. Complex sentences' syntax in Belarusian literary aphorisms(Compound sentence) 168

Summary

The article deals with the main patterns of a compound sentence used in the Belarusian literary aphorisms. Efficiency of certain patterns, means of syntactic connections and semantic relations between predicative parts of a compound sentence, as well as their agreement with categorial characteristics and stylistic peculiarities of belletristic literature are highlighted by the author.

