



Previous Year Question Paper
of

KERALA P.S.C EXAMS

ZOOLOGY H.S.T. 2018

(Higher Secondary Zoology Teacher Recruitment)

Question Code: 051/2018

Date of Test: 19/04/2018

(Original Question Paper with Answer Key)

KERALA PUBLIC SERVICE COMMISSION



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921989

Question Booklet
Alpha Code

B

Question Booklet
Serial Number

B

Total Number of Questions : 100

Time : 75 Minutes

Maximum Marks : 100

INSTRUCTIONS TO CANDIDATES

1. The Question Paper will be given in the form of a Question Booklet. There will be four versions of Question Booklets with Question Booklet Alpha Code viz. **A, B, C & D**.
2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the Question Booklet.
3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
4. If you get a Question Booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator **IMMEDIATELY**.
5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your Question Booklet is un-numbered, please get it replaced by new Question Booklet with same alpha code.
6. The Question Booklet will be sealed at the middle of the right margin. Candidate should not open the Question Booklet, until the indication is given to start answering.
7. Immediately after the commencement of the examination, the candidate should check that the Question Booklet supplied to him/her contains all the 100 questions in serial order. The Question Booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
8. A blank sheet of paper is attached to the Question Booklet. This may be used for rough work.
9. **Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.**
10. Each question is provided with four choices **(A), (B), (C)** and **(D)** having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball Point Pen in the OMR Answer Sheet.
11. **Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.**
12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

SEAL

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10. Egg of petromyzoneis
A) Isolecithal
B) Macrolecithal
C) Mesolecithal
D) Microlecithal **Ans. C**
11. Galactosaemia is a congenital disease when normal metabolism of galactose is lacking an enzyme
A) Galactose-1-phosphate uridylyltransferase
B) Galactose-1-phosphatase
C) Galactose-1-2-phosphatase
D) Galactose-1-phosphate transferase **Ans. A**
12. The physiologically active form of pantothenic acid essential for metabolism
A) Acetylcholine
B) Choline
C) Coenzyme A
D) None of the above **Ans. C**
13. Bitot's spots is caused by the deficiency of
A) Vitamin A
B) Vitamin D
C) Vitamin K
D) Vitamin B **Ans. A**
14. Erythrocytes do not transport the enzyme
A) Choline esterase
B) Carbonic anhydrase
C) Permease
D) Methaemoglobin reductase **Ans. C**
15. Composite molecule of DNA in which a foreign DNA has been inserted into a vector molecule are called
A) Foreign DNA
B) DNA chimaeras
C) Target DNA
D) Passenger DNA **Ans. B**
16. In 1970, an enzyme for cutting the DNA was discovered from the bacterium
A) Haemophilous influenzae
B) Escherichia coli
C) Methanosarcina
D) Helicobacter pylori **Ans. A**
17. Bidder's canal is present in kidney of
A) Frog
B) Crocodile
C) Tortoise
D) Snake **Ans. A**

A

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18. First test tube baby of the world was born on
A) 26th July 1978
B) 26th May 1987
C) 25th July 1978
D) 25th May 1987
Ans. C
19. An instrument used to scan a patients body, by a narrow X-ray beams guided by computer and thin sections of organs are photographed from several angles
A) CTS
B) CAT
C) NMR
D) CET
Ans. B
20. Deficiency of an enzyme beta-D-N-acetyl-hexosaminidase causes
A) Beta-thalassemia
B) Tay Sachs disease
C) Galactosemia
D) Alkaptonuria
Ans. B
21. 45 + XX in human indicates
A) Patau's syndrome
B) Jacob's syndrome
C) Klinefelter's syndrome
D) Down's syndrome
Ans. D
22. Warm blooded animals are larger in size in the colder region when compared to hotterregions
A) Bergman's law
B) Cope's law
C) Allen's law
D) Dollow's law
Ans. A
23. During glycolysis glucose is phosphorylated into
A) Glucose 6 phosphate
B) Glucose 1-6-diphosphate
C) Fructose 1, 6-diphosphate
D) Fructose 6 phosphate
Ans. C
24. A method used for sequencing whole genomes by breaking the DNA is
A) Shotgun sequencing
B) Western blotting
C) Southern blotting
D) Northern blotting
Ans. A
25. Chemical degradation of DNA protocol was developed by
A) Sanger
B) Miller
C) Gilbert
D) Maxam-Gilbert
Ans. D



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35. The technique used for opening partially blocked coronary vessels before they become totally occluded
A) Angiogram
B) EEG
C) Angioplasty
D) ECG
Ans. C
36. Thrombosis in which coronary artery is related most frequently in myocardial infraction
A) Left coronary artery
B) Right coronary artery
C) Left pulmonary artery
D) Right pulmonary artery
Ans. B
37. Glands of swammerdams is associated with
A) Reproductive system
B) Nervous system
C) Circulatory system
D) Muscular system
Ans. B
38. Leydig cells are meant for the production of
A) Testosterone
B) Progesterone
C) Oestrogen
D) Aldosteron
Ans. A
39. During polymerization the mismatched residues at the primer terminus is removed and the accuracy of DNA replication is done by
A) Exonuclease
B) DNA polymerase II
C) DNA polymerase III
D) DNA polymerase I
Ans. D
40. A hormone which stimulate the activity of adenyl cyclase and increases the cAMP level
A) Adrenocorticoid
B) Steroid
C) Cataecholamines
D) Pituitary
Ans. C
41. Deficiency of thyroid hormone in adults causes the disease
A) Grave's disease
B) Gull's disease
C) Basidow's disease
D) Addison's disease
Ans. B
42. The activated adenyl cyclase serves as a biochemical amplifier and catalyses the hydrolysis of ATP to cAMP, in the presence of
A) Na⁺ and Cl⁺
B) K⁺ and Cl⁺
C) Ca⁺⁺ K⁺⁺
D) Ca⁺⁺ and Mg⁺⁺
Ans. D

A

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43. The ruptured follicle in mammalian ovary after the release of ovum which later gets fertilized to form
- A) Corpus luteum
 - B) Graafian follicle
 - C) Corpus callosum
 - D) Corpus albican
- Ans. C*
44. The Nobel prize in physiology in 1995 for their discovery concerned with the genetic control of early embryonic development was for
- A) Nusslein and Wieschaus
 - B) Wolpert
 - C) Jacob and Monord
 - D) Lewies
- Ans. A*
45. Homeotic genes of *Drosophila* include a 180-nucleotide sequence called the
- A) Torpido
 - B) Homoeodomain
 - C) Spatzal
 - D) Homeobox
- Ans. D*
46. Oxygen is directly used during
- A) Fermentation
 - B) Krebs citric acid cycle
 - C) Biomethanisation
 - D) Glycolysis
- Ans. A*
47. Dissolved oxygen needed for microbes is measured by
- A) COD
 - B) BOD
 - C) DO
 - D) TDS
- Ans. B*
48. A mutant strain of neurospora which fails to grow on a minimal medium unless supplemented with a nutrient is called
- A) Auxotroph
 - B) Mixotroph
 - C) Paratop
 - D) Holotroph
- Ans. A*
49. First Indian Scientist who got Nobel prize for deciphering the genetic code
- A) Amartyasen
 - B) Venkatraman Ramakrishnan
 - C) C. V. Raman
 - D) Khorana
- Ans. D*

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58. Lion-tailed macaque is considered as
- A) Endangered species
 - B) Vulnerable species
 - C) Rare species
 - D) Extinct species
- Ans. A*
59. Populations reproductively isolated and live in different habitat but occupy same territory are known as
- A) Ethological isolation
 - B) Temporal isolation
 - C) Ecological isolation
 - D) Morphological isolation
- Ans.C*
60. The animals tend to develop huge size and birds lose the power of flight and bright colour in those Islands
- A) Galapagos Islands
 - B) Oceanic Islands
 - C) Ancient Islands
 - D) Continental Islands
- Ans. B*
61. If, DNA is found to have the base composition of A = 40, T = 22, C = 17 and G = 21 then the DNA will be
- A) Double stranded
 - B) Single stranded
 - C) Linear duplex
 - D) Circular duplex
- Ans. B*
62. Methylation of DNA most commonly occurs in the sequence of
- A) Cp T
 - B) Cp C
 - C) Cp A
 - D) Cp G
- Ans. D*
63. The example of inducible operon is
- A) lac-operon
 - B) try-operon
 - C) arginine operon
 - D) TRP operon
- Ans. A*

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64. In 2017, the discovery of molecular mechanisms controlling the circadian rhythm, won Nobel prize for
A) Rainer, Barry and Kip
B) Jacques, Joachim and Richard
C) Jeffrey, Michael and Michael
D) None of the above **Ans. C**
65. Sickle cell anaemia is caused by the substitution of
A) Glutamic acid at the 5th position in β chain of Hb by valine
B) Glutamic acid at the 6th position in β chain of Hb by arginine
C) Glutamic acid at the 6th position in β chain of Hb by alanine
D) Glutamic acid at the 6th position in β chain of Hb by valine **Ans. D**
66. The RNA polymerase recognize a seven-base sequence on the promoter region called
A) Pribnow box
B) Operons
C) TATA box
D) Enhancers **Ans. C**
67. During pregnancy intake of certain medicines causes foetal toxicity like hyperkalemia and hypertension.
A) Thalidomide
B) ACEI
C) Valproic acid
D) 13-cis Accutane **Ans. B**
68. Amnion is the foetal membrane developed from
A) Somatopleure
B) Chorionic cavity
C) Chorionic villi
D) Amniotic cavity **Ans. A**
69. Automicticdiploidy occurs in
A) Hymenoptera and Coleoptera
B) Thysanoptera and Rotifers
C) Rotifers and Coleoptera
D) Lepidopterans and Hymenopterans **Ans. D**
70. The correct series of events representing the development of vertebrate
A) Cleavage, Blastula, Gastrulation, Organogenesis, Neurulation, Growth
B) Cleavage, Blastula, Gastrulation, Neurulation, Organogenesis, Growth
C) Blastula, Gastrulation, Cell migration, Organogenesis, Growth
D) Blastula, Cell migration, Gastrulation, Neurulation, Growth **Ans. B**

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71. Dependent variable in the process of teaching is
A) Teacher
B) Student
C) Learning experiences
D) Learning aids **Ans. B**
72. Optacon is a technical aid for
A) Mentally challenged pupils
B) Physically challenged pupils
C) Slow learners
D) Visually challenged pupils **Ans. D**
73. Which among the new type of test items have premises and responses ?
A) Multiple choice test item
B) Matching type test items
C) Alternate response type test items
D) Completion type test items **Ans. B**
74. Epi-position of the epidiascope is used to project the
A) Flat opaque objects
B) Lantern slides
C) Large slides
D) Transparent slides **Ans. A**
75. A group technique popularised by A.F. Osborn to develop creative thinking is
A) Panel discussion
B) Brain storming
C) Role playing
D) Group discussion **Ans. B**
76. The type of research commonly used in behavioural sciences are
A) Action Research
B) Conceptual Research
C) Qualitative Research
D) All the above **Ans. C**
77. Multistage sampling is a type of
A) Stratified sampling
B) Non-probability sampling
C) Purposive sampling
D) Complex random sampling **Ans. D**
78. Which one of the following source is not a primary source of data ?
A) Information provided by a person who did not directly observe the event
B) Auto biographies
C) Video recordings of interviews
D) Legislative documents prepared by State Governments **Ans. A**
79. The URL consists of
A) a protocol
B) a host name
C) the path to the document and the specific file name
D) all the above **D**
80. Which among the following is the expansion of PPA ?
A) Provisional Patent Agreement
B) Patent Protection Act
C) Patent Protection Application
D) Provisional Patent Application **Ans. D**

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81. Who can address the Parliament, being a non member ?
A) Chief Justice
B) Attorney General of India
C) Governor
D) Chief Election Commissioner **Ans. B**
82. The decision of _____ is final as far as the nature of a Money Bill is concerned.
A) Prime Minister
B) Vice-President
C) Speaker
D) Chief Justice **Ans. C**
83. Which among the following is considered as an extra-constitutional body ?
A) The Planning Commission
B) Finance Commission
C) Election Commission
D) Public Service Commission **Ans. A**
84. The residuary powers in India rest with
A) States
B) Courts
C) Union
D) Both Union and States **Ans. C**
85. Choose the correct statement
A) Fundamental Rights are non-justiciable
B) Fundamental Rights are justiciable
C) Directive principles are justiciable
D) Fundamental duties are justiciable **Ans. B**
86. A comprehensive scheme for prevention of trafficking, rescue and rehabilitation and re-integration of victims of trafficking and commercial sexual exploitation.
A) Ujjwala
B) Mahila-E-Haat
C) Narisakthi
D) Swadhar Greh **Ans.A**
87. _____ is the social campaign of government of India that aims to create awareness and improve the efficiency of welfare services intended for girls.
A) Sukanya Samrudhi
B) Dhanalakshmi Yojana
C) Bhagyalakshmi Yojana
D) Beti Bachao, Beti Padhao **Ans. D**
88. Name the scheme launched by Union Government to boost community and private participation in government school.
A) Vidyanjali Scheme
B) Operation Blackboard
C) Vidya Varidhi
D) Anthyodaya **Ans. A**
89. A new pension scheme launched by Union Government in 2015 which would benefit people in unorganised sector
A) Swavalamban
B) Atal Pension Yojana
C) Jeevan Jyothi
D) Jan Dhan Yojana **Ans. B**
90. 'Collective Choice And Social Welfare' is a famous book written by
A) Walter I. Trattner
B) David Macarov
C) Prabhath Patnaik
D) Amarthya Sen **Ans. D**

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Ans. D

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91. Who has been appointed as the secretary to the President of India ?
A) Rajeev Kumar
B) Sanjay Kothari
C) S. Aparna
D) Dhirendra Swarup
Ans. B
92. The leader of Guruvayoor Satyagraha
A) T. K. Madhavan
B) K. P. Kesava Menon
C) K. Kelappan
D) C. V. Kunjiraman
Ans. C
93. Which State will hoist the 36th National Games ?
A) Goa
B) Kerala
C) Bihar
D) Hariyana
Ans. A
94. The International Day of peace was observed on
A) August 20
B) Sept. 20
C) August 21
D) Sept. 21
Ans. D
95. The author of 'Advaita Chintapadhathi'
A) Chattambi Swamikal
B) Vaikunda Swamikal
C) Dayananda Swamikal
D) Brahmananda Sivayogi
Ans. A
96. Where was the 2017 World Para Athletics championship held ?
A) Beijing
B) Paris
C) Moscow
D) London
Ans. D
97. The father of modern Kerala Renaissance Movement.
A) Chattampi Swamikal
B) Sri Narayanaguru
C) Thacaud Ayya
D) Vakkam Moulavi
Ans. B
98. Which has been declared by Telangana as the State's second official language ?
A) Telugu
B) English
C) Urdu
D) Hindi
Ans. C
99. Which State launched India's first electric bus service at high attitude ?
A) Madhya Pradesh
B) Andhra Pradesh
C) Himachal Pradesh
D) Gujarat
Ans. C
100. Who is known as Kerala scot ?
A) C. V. Ramanpillai
B) N. Krishnapillai
C) M. T. Vasudevan Nair
D) Vennikulam Gopalakurup
Ans. A

A

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