



श्री चित्रा तिरुनाल आयुर्विज्ञान और प्रौद्योगिकी संस्थान, तिरुवनन्दपुरम् - ६९५ ०११, केरल, भारत
SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES & TECHNOLOGY
THIRUVANANTHAPURAM – 695 011 KERALA, INDIA
(An Institute of National Importance under Govt. of India)
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WRITTEN TEST FOR MFCP TECHNICAL ASSISTANT (ANIMAL LAB) A TO B

Roll No.

Date: 26.11.2019

Time: 9.30 A.M

Duration: 60 Minutes

Total Marks: 50

INSTRUCTIONS TO THE CANDIDATE

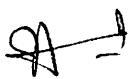
1. Write your Roll Number on the top of the Question Booklet and in the answer sheet.
2. Write legibly the alphabet of the most appropriate answer in the separate answer sheet provided.
3. There will not be any Negative marking.
4. Over-writing is not permitted.
5. Candidate should sign in the question paper and answer sheet.
6. No clarifications will be given.
7. Candidate should hand over the answer sheet and question paper to the invigilator before leaving the examination hall.

Signature of the Candidate

Office Copy

Sree Chitra Tirunal Institute for Medical Sciences & Technology
Technical Assistant (Animal Lab) A to B
MFCP

Sl no	Question
1.	Quality System implemented in testing laboratories are based on A. ISO 10993 B. ISO 17025 C. ISO 9001 D. All the above
2.	The latest ISO 17025 was released in A. 2017 B. 2018 C. 2016 D. 2019
3	The term "acariasis" means A. Mite infestation B. Bacterial infection C. Parasitic infestation D. All of these
4	Tyzzer's disease is caused by A. <i>Citrobacter</i> B. <i>Campylobacter</i> C. <i>Clostridium piliformae</i> D. <i>E. cuniculi</i>
5	Fox-Patch cells are a. Large mononuclear granular lymphocytes b. Large mononuclear granular eosinophils c. Heterophils d. All of these
6 Requires a facility shut down, euthanasia of all animals and decontamination and restocking from a clean source A. <i>Citrobacter</i> B. <i>Mycoplasma pulmonis</i> C. <i>Salmonella</i> D. Fur mites
7	Middle and internal ear infections are to be avoided and hence the following agents are to be screened



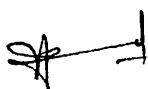
	A. <i>CAR Bacillus</i> B. <i>Citrobacter</i> C. <i>Pseudomonas aeruginosa</i> D. <i>Salmonella</i>
8	Pin worm infestation is caused by A. <i>Syphacia obvelata</i> B. <i>Syphacia muris</i> C. <i>Pssalurus ambigus</i> D. Both a and b
9	Which is the rat tape worm A. <i>Taenia soleum</i> B. <i>Hymenolepis diminuta</i> C. <i>Taenea pisiformis</i> D. <i>Taenea taenea</i>
10	Rabbit ear mite is A. <i>L. gibbus</i> B. <i>P cuniculi</i> C. <i>S. scabiei</i> D. <i>C caviae</i>
11	CPCSEA is under ministry of Govt. of India A. Ministry of Earth Sciences B. Ministry of environment and forests C. Ministry of Fisheries, Animal Husbandry and Dairying D. Ministry of Human resource development
12 ratio affects and makes the mice most susceptible to the ambient temperatures since heat gain/heat loss can occur dramatically in these species. A. Body weight / Surface area B. Surface area/body weight C. Body Mass Index/Body Weight D. None of these
13	Porphyrin pigment in rat is produced by? A. Lacrimal gland B. Gall bladder C. Harderian gland D. None of these
14	Guinea pig lacks the following enzyme in its Vit-C production pathway

	<p>A. L gluconolactone oxidase B. L gluconolactone reductase C. L ascorbic gluconolactone D. both a, b and c</p>
15	<p>..... is a disease which can be easily detected by Serum chemistry?</p> <p>A. SDAV B. LDH EV C. LCMV D. Pasteurellosis</p>
16	<p>Crude fiber levels for rabbit in feed to be supplied is</p> <p>A. 10-12% B. 20-25% C. 8-14% D. 40-50%</p>
17	<p>Acidification of potable water supply is used for the prevention of ---?</p> <p>A. <i>Streptococcus</i> B. <i>Pseudomonas</i> C. <i>Salmonella</i> D. <i>Mycoplasma</i></p>
18	<p>Ethics of majority of the biomedical researchers are based on the following principle of philosophy</p> <p>A. Contractarianism B. Utilitarianism C. Rights for animals D. respect to nature</p>
19	<p>Exposure of sound levels more than 85 decibels for longer duration can lead to</p> <p>A. Cessation of breeding and cannibalism B. Increased adrenal weights C. Eosinopenia D. All of these</p>
20	<p>When a group of females are housed together the females become anoestrous or pseudopregnant is known as:</p> <p>A. whitten effect B. Lee boot effect C. Bruce effect D. pelger huet anomaly</p>
21	<p>Behavioural enrichment is an absolute necessity to avoid</p>

	<ul style="list-style-type: none"> A. Stereotypic behaviour B. Cage mate aggression C. Barbering D. All of these
22	<p>For repeated and frequent blood collection, a maximum of % of total blood volume can be removed.</p> <ul style="list-style-type: none"> A. 10% every week B. 10% every 24 hours C. 20% every month D. 1% every 24 hours
23	<p>Daily requirement of Vitamin C for Guinea pig per day is</p> <ul style="list-style-type: none"> A. 10-20 mg/day B. 30-45 mg/kg C. 25-50mg/day D. 100-120mg/day
24	<p>Chronic stress is expressed by non-grooming hence observation of is a diagnostic sign in rodents</p> <ul style="list-style-type: none"> A. Hunched back B. Chromodacryorrhoea C. Vocalization D. Sleepyness
25	<p>..... is an example of a behavioural test with which we can assess the anxiety levels in mice and rats</p> <ul style="list-style-type: none"> A. Elevated Plus maze B. Faecal corticosteroids C. Anhedonia D. All of these
26	<p>Secretion of Hepatic microsomal enzymes can be stimulated by</p> <ul style="list-style-type: none"> a. Aromatic hydrocarbons b. Aliphatic compounds c. Pheromones d. Heavy metals in feed
27	<p>Quality of a good animal bedding material is</p> <ul style="list-style-type: none"> A. Non-adsorbent B. Non-edible C. hard and rough D. Wettable

28	<p>..... Is a widely used guideline to assess health in laboratory animal species</p> <p>A. LASA B. FELASA C. UFAW D. ICLAS</p>
29	<p>Most common bacterial cause of death in rabbits is</p> <p>A. <i>Pasteurellosis</i> B. <i>Chlamydiosis</i> C. <i>Staphylococcosis</i> D. <i>Streptococcosis</i></p>
30	<p>As per CPCSEA guideline record of animals acquired and experiments performed are entered in</p> <p>A. Form A B. Form c C. Form D D. Form E</p>
31	<p>Dermatomycosis or ring worm infection in rat is caused by</p> <p>A. <i>Trichophyton mentagrophytes</i> B. <i>Pneumocystis carinii</i> C. <i>Polyplax spinulosa</i> D. <i>Radfordia ensiefera</i></p>
32	<p><i>Encephalitozoon cuniculi</i> is a</p> <p>A. Protozoon parasite B. Mycoplasma C. Nematode D. Cestode</p>
33	<p>Registration of an animal facility is done with CPCSEA using Form and is renewed once in every years</p> <p>A. A, 5 B. A, 3 C. A, 2 D. D, 4</p>
34	<p>..... Was considered as a fur mite specifically seen only in guinea pigs but later was reported from rats.</p> <p>A. <i>P. cuniculi</i> B. <i>S. scabiei</i> C. <i>C. caviae</i></p>

	D. <i>Cheileittiella</i>
35	<p>From Mice if few drops of blood is required this technique may be used by causing least discomfort to the animal</p> <ul style="list-style-type: none"> A. Cheek puncture B. Orbital plexus C. sub lingual vein D. All
36	<p>Which of the following techniques requires as a mandate anaesthesia before the procedure to assure welfare of small laboratory animals?</p> <ul style="list-style-type: none"> A. Cardiac puncture B. Orbital puncture C. Sub lingual bleeding D. Both a and b
37	<p>As per currently acceptable International guidelines and good-procedures, euthanasia can be done in rodents by Cervaecal dislocation (CD)</p> <ul style="list-style-type: none"> A. For all rodents B. after sedation of rodents weighing over 150g C. CD is Unacceptable D. after general anaesthesia in all rodents
38	<p>Shooting with a loaded gun by expert marksmen is an acceptable method of euthanasia as per EU directives adopted in 2010 for</p> <ul style="list-style-type: none"> A. Dogs, Cats, Ferrets and foxes when no alternatives are available B. In large animals in field conditions C. Unacceptable D. both a and b
39	<p>Euthanasia is permissible to be done using Carbon dioxide inhalation as per EU directives 2010 in</p> <ul style="list-style-type: none"> A. Rats B. Mice C. Rabbits D. Only in options a and b
40	<p>As per FELASA guidelines the pathogens are to be screened at the following time intervals</p> <ul style="list-style-type: none"> A. Annually B. Bi annually C. Quarterly



	D. Monthly
41	<p>..... is an example of a strain and stock of Mouse respectively.</p> <p>A. BALB/c, C57 BL/6J B. C57 BL/6J, BALB/c C. Swiss albino, C3H D. None of these</p>
42	<p>..... % of RH Degree Celsius, and Air Changes per hour are required as a general rule for all the small laboratory animals housed.</p> <p>A. 55±10, 22±3, 17-20 B. 30-70, 22±3, 12-15 C. 55±10, 23±2, 50 D. Any of these</p>
43	<p>..... does not have a gall bladder among small laboratory animals.</p> <p>A. Rats B. Mice C. Rabbits D. Guinea Pigs</p>
44	<p>..... Is a common behaviour seen in rats and mice when let loose into open spaces.</p> <p>A. Chemotaxis for pheromones B. Thigmotaxis C. Aberrant fighting D. Fright fight and flight</p>
45	<p>Which of the following <i>Eimeria</i> strain causes infection in mice?</p> <p>A. <i>E. stidae</i> B. <i>E. falciformis</i> C. <i>E. separata</i> D. <i>E. magna</i></p>
46	<p>Rat estrous cycle period is</p> <p>A. 10-15days B. 1-2days C. 4-5days D. 7days</p>
47	Chromosome number of mice is

	<p>A. 64 B. 40 C. 42 D. 46</p>
48	<p>Brother to sister mating for more than 20 consecutive generation is known as</p> <p>A. inbred strain B. outbred strain C. coisogenic strain D. congenic strain</p>
49	<p>Rabbit ear mite is</p> <p>A. <i>L. gibbus</i> B. <i>P. cuniculi</i> C. <i>S. scabiei</i> D. <i>C. caviae</i></p>
50	<p>In water quality checking the points of evaluation are</p> <p>A. Turbidity B. pH C. metal ion concentration D. all of the above</p>

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Sree Chitra Tirunal Institute for Medical Sciences & Technology

Answer Key

**Technical Assistant (Animal Lab) A to B
MFCP**

Sl no	Answer
1.	B
2.	A
3	C
4	C
5	A
6	C
7	C
8	D
9	B
10	B
11	C
12	B
13	C
14	A
15	B
16	A
17	B
18	B
19	D
20	B
21	D
22	D
23	C
24	B
25	A
26	A
27	B
28	B
29	A
30	C
31	A
32	A
33	A

34	C
35	D
36	A
37	C
38	D
39	D
40	C
41	D
42	B
43	D
44	B
45	A
46	B
47	B
48	A
49	B
50	D

