#### ROYAL CIVIL SERVICE COMMISSION

### CIVIL SERVICE COMMON EXAMINATION (CSCE) 2010

#### **EXAMINATION CATEGORY: TECHNICAL**

#### PAPER II: GENERAL SUBJECT KNOWLEDGE -MEDICAL

Total marks 100

Time 90 minutes

- Read the following instructions before you proceed to answer the questions.
- 2. The question paper is divided into two sections: A and B
- 3. Section A is multiple choice questions (70 marks). Choose the one BEST answer to the question.
- 4. Part 2 is short answer question (30 marks). Answer the question to the point.
- 5. Use separate sheet for all the answers.
- 6. Number of answer sheets attached

# Section A: Multiple choice question (70 marks)

SELECT ONE MOST CORRECT OR APPROPRIATE ANSWER (1 mark each for every question)

1. All are common bacterial diseases of	f domestic animals except
a) Anthrax	b) Brucellosis
c) Salmonellosis	d) Foot and Mouth Disease
2. Eve is the female of	
	b) Sheep
c) Donkey	d) Horse
3. Beewax is obtained from.,	
a) Apis Indica	b) Apis Dorsata
c) Apis Florea	d) None of above

4. Fish Meat is better then other meat	as it contains more
a) Carbohydrate	b) Fats
c) Proteins	d) Water
2	
5. Ability of an organism to ward of it	nfection is called
a) Resistance	b) Pathogenicity
c) Infection	d) Virulence
o) micdani	
6. Which of the following cells are inv	volved in the defense mechanism of the body?
KI SOON HERMINING	
a) Lymphocytes	b) Neutrophills
c) Macrophages	d) All of above
7. Sexually transmitted diseases in Hu	mans are
a) Syphillis	b) Chancroid
V In T	
c) Gonorrhoea	d) All of the above

8. All are non-communicable diseases of	except
ALTERNATION IN THE CO.	
a) Hypertension	b) Diahetes mellitus
c) Tuberculosis	d) Gout
9. When the stems of a plant are modifie into spines, it is called as	d into green flattened structures and leaves are modified
	Control of the last of the las
a) Phyllode	b) Cladode
c) Bulbil	d) Phylloclad
10. In a plant, the Bud that grows at the ap	bex of a stem or branch is called as
a) Axillary bud	b) Terminal bud
c) Accessory Bud	d) Adventitious bud
1. The storage root in a carrot is a modifie	d
a) Tap root	b) Adventitious root
c) Stem	d) Leaf
	n = William (No.

	em of a plant grows directly from	
		eng nem mi xii no-fibazimwikilanwazini
	a) Cotyledons	b) Radicle
	c) Integuments	d) Plumule
	7. 8	
13. If a co	ell swells after being placed in a soluti	on then the solution is
	a) Neutral Solution	b) Hypertonic solution
	and the salience *	
	c) Hypotonic solution	d) Isotonic solution
	25000 X/A	
14. When	a cell is fully turgid, which of the fol	lowing pressure will be zero
	a) Suction pressure	b) Wall pressure
	c) Osmotic pressure	d) Turgor pressure
	10 € Michael Andreadh ann a tha ann an t-aireann ann ann an t-aireann ann ann ann ann ann ann ann ann ann	***
15, The c	listribution of stomata per unit area of	leaf and their size affects the rate of
	a) Absorption	b) Respiration
	AM = 2000	
	c) Transpiration	d) Guttation
	2V	10

16. Where would you find psudo-stratifie	ed nothern
1 - vitality	od columnar epithelium?
The man is the	Trachemie Tomore
a) Mouth	b) Epidermis
c) Kidneys	d) Trachea
Time to See Jan 19 19 19 19 19 19 19 19 19 19 19 19 19	
<ol> <li>The inner surface of large intestine is Ii</li> </ol>	ined with
White or a money of the	with
a) Muscular Tissue	b) Glandular Epithelium
	Antino a pina any tito
c) Dermis	d) Cuticle
	are militar and a surface
18. The alveoli of mammalian lungs are lined	gió pollet en to dante. Desuretto a una
	d with
a) Simple Cuboidal Epithelium	b) Cilliated columnar epithelium
c) Simple squamous epithelium	d) Cilliated cuboidal epithelium
9. The serous membrane covering the lung is	called
a) Pleura	b) Peritoneum
c) Pericardium	d) Serosa

20. The noble gases that is used in lasers to	for medical use are	
a) Helium and Neon	b) Neon and Argon	
c) Helium, Neon and Argor	n d) Neon, Argon and Kryp	oton
		_ =
21. In the metallurgy of Iron, when Limes	stone is added to the blast furnace, the	he calcium ion ends
up in		
a) Slag	b) Gangue	
(C) Metallic Calcium	d) Calcium Carbonate	
22. The metal used as catalyst in the Hydr	rogenation of Oil is	
a) Iron	b) Nickel	
c) Cobalt	d) Copper	
23. Concentrated Sulphuric Acid changes	cane sugar to	
a) Carbon	b) Carbon-dioxide	
b) Carbon mono-oxide	d) Oxalic Acid	

24. Prolusite is a	mineral that con	tain	Crawl Comme	
a) Sliver		b) Mangano	ese makama	
c) Chromi	um	d) Zinc		
25. Ethanal can be	e made from Eth	aunol by		
	·	unor by		
a) Oxidation	b) Red	luction	**	
c) Hydration	d) Deh	ydration		
Care managed to the same	E7		VIII 11-3 49415-4	1.3
26. Rutherford's sc	attering experin	nent is related to the	size of	
a) Nucleus		b) Atom		
c) Electron		d) Neutron		
27. Barium is obtain	ned by the reduc	tion of its oxide with	ערים ולבול כלוווד אי	
a) Carb	on ·	b) Sodium		
b) Mag	nesium	d) Alumini	ım	
			10	

28. The hardest of all alkali i	metal is.,	
a) Lithium	b) Sodiu	m
c) Potassium	d) Oalsin	am .
*		
29. The electromagnetic radi	ation with maximum v	vavelength is
a) Ultraviolet	rays	b) Radio wave
c) X-Rays		d) Infrared
30. Movement of colloid par	ticles under the influer	nce of an electric current is known as
a) Electropho	oresis	b) electro-osmosis
c) Electro dia	llysis	d) Brownian movement
31. Lead pencils contains		
		Albuma lingitori attar awine a ri 10g meta.
a) Lead	b) Le	nd sulphate
c) Graphite	d) Le	ad and Carbon

32. Sebum is secreted by	
A	
a) Sweat gland	b) Mucous gland
c) Sebaceous gland	d) Cardiac gland
28	
33. Endometrium is the innermost layer of	
a) Blood vessels	b) Uterus
c) Bones	d) Intestine
34. Mast cells are found in	
a) Adipose Tissue	b) Areolar Tissue
c) Fibrous Tissuc	d) Muscles
35. When concentrated Sulphuric Acid is added to a sm	nall amount of salt in a test tube, a
colorless gas is evolved with pungent smell. The in	ference is
a) Chloride may be present in the salt b) Prese	nce of Chloride in the salt is confirmed
c) Nitrate may be present in the salt d) Prese	nce of nitrate in the salt is confirmed

- 36. A catalyst is a substance which ...
  - a) Increases the equilibrium concentration of the product
  - b) Changes the equilibrium constant of the reaction
  - c) Shortens the time to reach equilibrium
  - d) Supplies energy to the reaction
- 37. Faraday's Laws of Electrolysis are related to....
  - a) Atomic Numbers of the Ions discharged
  - b) Moles of Ions discharged
  - c) Equivalent weights of Ions discharged
  - d) Moles and equivalent Weights of Ions discharged
- 38. When an electric current is passed through an aqueous solution of Sodium Chloride.
  - a) The pH of the solution progressively decreases
  - b) The pH of the solution progressively increases
  - c) The pH does not change
  - d) A change in pH can be predicted only if the concentration the solution and the strength of the current are known.

G.	
a) Sugar cane	b) Starch
c) Honey	d) Orange
	remaining many 2004 and an area to
40. Pepsin is an example of:	
a) Enzyme	b) Hormone
c) Nutrient	d) Vitamin
41. Islets of langerhans is found in	hagminally well as eating (#
a) Ovary	b) Liver
c) Pancreas	d) Spleen
42. Bilirubin is found in:	
a) Blood	b) Bile
c) Saliva	d) Pancreatic juice
43. Glycogen is stored in:	
<ul> <li>a) Liver and muscles</li> </ul>	b) Liver only
c) Muscle only	d) Pancreas

39. Sucrose is found in:

44. Amino acids that can be synthesized in the body are:	
	8
a) Non essential amino acids	b) Essential amino acids
c) Active amino acids	d) In-active amino acid
45. Carbon dioxide is carried in the blood in the form of	
	and the heart of the main and
a) Sodium bicarbonate	b) Sodium carbonate
c) Potassium carbonate	d) Magnesium bi-carbonate
46. Breathing centre that controls normal breathing in ma	ammals lies in:
a) Cerebellum	b) Cerebrum
c) Mid-Brain	d) Medulla-Oblongata
S manifer a misroa sulfibre situate con	
47. Foramen of Monoro is an aperture between:	
	7
a) Brain and spinal cord	b) Third and forth ventricle
c) Lateral and third ventricle	d) none of above

48. When sympathetic nerve supply to the heart	is completely cut off, the heart beat will:
a) Show no change	b) Increase
c) Decrease	d) Non of the above
in the same of the	the state of the s
49. Increase in blood pressure and heart rate is o	saused by:
a) Adrenaline	b) Thyroid
Secretin	d) Gastrin
50. Magnetic field can be produced by	
Distribution of the self-	
a) Moving charge only	b) Change in electric field only
C.) Non of them	d) a and b
51. If a beta particle is emitted from a radioactive	substance, then its atomic number:
a) Increase by one unit	b) Decrease by one unit
c) Increase by two units	d) Decrease by two units

52. Which of the following is not a fundame	ntal particle?
a) Proton	b)Neutron
c) Meson	d) Alpha particle
53. The resistance of a straight conductor do	es not depend on its:
a) Temperature	b) Length
c) Material	d) Shape of cross section
54. The angle between the magnetic meridia	nn and geographic meridian is known as:
Mark Committee of the C	
a) Magnetic dip	b) Magnetic declination
c) Magnetic movement	d) Magnetic field strength
55. Of the following, the most suitable mater	rial for making electro magnets is:
a) Soft iron	b) Steel
c) Copper	d) Nickel
No. 56 is missing 57. The working of a dynamo is based on:	
a) Magnetic effect of current	b) Heating effect of current
c) Chemical effect of current	d) Electromagnetic induction

58. The re	efractive index of a glass prism depend	ls upon:
	a) The angle of prism	b) The angle of deviation of light ray
	e) The color of incident light	d) The intensity of incident light
	A Company of the Comp	
59. The co	ompound microscpe was invented by	
	a) Romer	b) Galileo
	c) Focault	d) Fizeau
Sta ddigwe		
60. Candel	a is the unit of:	
	a) Acoustic intensity	b)Electric intensity
	c) Luminous intensity	d) Magnetic intensity
		THE RESERVE OF THE PERSON NAMED IN
61. The end one volt is		accelerated through a potential difference of
	a) One joule	b) One electron volt
	c) One erg	d) One watt

62. A pl	noton is:		
	a) a quantum of radi	ation	b) a quantum of matter
	c) a positively charge	I particle	d) a negatively charged particle
63 In wh	nich region of the electro ma	onetic spectrum does	the lymen series of hydrogen lie:
35.44	B	Poster observent good	are tymen series or nyarogen no.
	a) Ultraviolet	b) Infra-red	
	c) Visible	d) X-ray	
64. As th	e speed of an electric fan inc	reases, the current:	
	to decide commenced of		
	a) Increase	b) Decreases	
	c) Remains the same	d) becomes n	aximum when speed is maximum
65. Heat	radiations are:		
	a) Gamma rays	eli wan	Microwaves
	c) Infra-red radiations		
	c) initia-ted radiations		d) Radio waves
66. When	is World AIDS day observe	d?	
		¥k	
	a) 23 <sup>rd</sup> March	b) 1 <sup>st</sup> Apri	

d) 11<sup>th</sup> November

c) 1<sup>st</sup> December

67. Tuberculosis is disease caused by:		
4		
a) Virus	b) Bacteria	
c) Arthropods	d) Non of the above	
68. HIV/AIDS can be transmitted thro	ough:	
*		Xi.
a) Blood	b) Breast milk	
a) Blood	b) Breast milk	
c) Body fluids	d) All of the above	SERVICE.
	Y.	
69. Condom is used for:		
a) Contraception	b) Prevent	tion of HIV/AIDS
c) Prevention of sexual	ly transmitted diseases d) All of the	e above
70. World TB day is observed on:		
70. World 1B day is observed on:		
a transfer to the later	*	
(24 <sup>th</sup> March	b) 21 <sup>st</sup> April	
c) I <sup>st</sup> December	d) 29th October	
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		Tressellant ou

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## Section B: Short questions

Answer <u>ALL</u> the questions in brief on separate sheets. (3 marks for each question)

Q.1 How many moles of Sulphur atoms and oxygen atoms are present in one mole $\rm H_2SO_4,H_2SO_3$ and $\rm SO_2?$	each of
Q 2: What is Electroplating?	
Q3. What is Sericulture?	
Q4. Define Immunity?	
OS Define Health on per the World Health Owner in the WHO A Cold of	
Q5. Define Health as per the World Health Organization (WHO) definition?	
06 D. E D. E	
Q6. Define Diffusion?	
27. Define Osmotic Pressure?	

Q8. Define Turgor pressure?	
THE WHITE STATE OF	
Q 9. What is the role of Hemoglobin in re	
Q10. What is Spermatogenesis?	
*	
	GOOD LUCK