

Riphah Institute of Pharmaceutical Sciences,

RIPHAH INTERNATIONAL UNIVERSITY

ADMISSION TEST

Fall – 2017

Doctor of Pharmacy (Pharm-D)

Name _____

Application ID Number _____

Note: Mark answer of each question on the response sheet.

Section I- Biology

1. _____ is the process through which a double stranded DNA molecule (gene) is used as a template to generate a complementary mRNA molecule?

- a. Translation
- b. Transcription
- c. Replication
- d. Transformation

2. Histology is study of living organisms at _____ level.

- a. Cell
- b. Organ
- c. Tissue
- d. Community

3. How many pairs of cranial nerves are present in humans?

- a. 8
- b. 10
- c. 11
- d. 12

4. When the concentration of external medium is equal to the concentration of internal medium of cell is called:

- a. Hypertonic
- b. Hypotonic
- c. Isotonic
- d. Heterotonic

5. Which of the following functions of kidney takes various useful products along with wastes into the urine out of blood?

- a. Active tubular secretion
- b. Selective reabsorption
- c. Glomerular filtration
- d. None of the above

6. Taxonomy is the study of

- a. Hereditary characters
- b. Structure and functions of cell
- c. Naming and classification of organisms
- d. All of the above

7. Mature red blood cells are _____.

- a. Anucleate
- b. Biconcave
- c. Prone to die within 4 months
- d. All of above

8. Which of the following base is not present in DNA

- a. Adenine
- b. Guanine
- c. Uracil
- d. Cytocine

9. Which of the following are called rod shaped bacteria?

- a. Cocci
- b. Vibrio
- c. Bacilli
- d. Spirochetes

10. Enzyme denaturation may occur at _____.

- a. Very high substrate concentration
- b. Very high temperature
- c. Very low substrate concentration
- d. Very low temperature

11. Amino acids differ from each other depending upon the nature of _____.

- a. Amino group
- b. Carboxylic acid group
- c. R-chain
- d. All of above

12. Alcoholic fermentation naturally occurs in _____.

- a. Yeasts
- b. Skeletal Muscles
- c. Bacteria found in dairy products
- d. Both (a) and (b)

13. Which of the following is a polysaacharide

- a. Maltose
- b. Fructose
- c. Lactose
- d. Glycogen

14. Viruses belong to the group

- a. Eukaryotes
- b. Prokaryotes
- c. Monera
- d. None of the above

15. Which of the following are fragments of megakaryocytes?

- a. Erythrocytes
- b. Platelets
- c. T-lymphocytes
- d. Macrophages

16. The heart's natural pacemaker is termed as

- a. Atrioventricular node
- b. Sinoatrial node
- c. Purkinje fibers
- d. Epicardium

17 Algae differ from plants in a way that _____.

- a. Their sex organs are unicellular
- b. They have unprotected zygotes
- c. They may have locomotion
- d. All of above

18. The important role play by the enzymes is

- a. Rapidly increase the activation energy
- b. Lowers the activation energy

- c. Maintain the activation energy d. All of the above

19. Plants respond to the light due to the presence of a hormone in its growing tip, the hormone was named

- a. Phytoxin b. Gibberallin
c. Auxin d. Phototoxin

20. The movement of ions or molecules in and out of the cell through membrane transport proteins but without the expenditure of energy is termed as

- a. Active transport b. Diffusion
c. Osmosis d. Facilitated transport

Section II - Chemistry

21. Ethyne has _____ Pi bonds

- a. 1 b. 2
c. 3 d. 4

22. Which of the following Compounds represents a Saturated Hydrocarbon?

- a. C_8H_{16} b. C_7H_{16}
c. $C_6H_{12}O_6$ d. $CHCl_3$

23. Carbon atom in carboxylic acid has _____ hybridization

- a. sp b. sp^3
c. sp^2 d. none of the above

24. Esterification is a process in which an alcohol reacts with _____ to produce ester and water.

- a. Ketone b. Carboxylic acid
c. Ether d. Base

25. A limiting reactant is that one which:

- a. Gives greatest number of moles of products.
b. Gives least number of moles of products.
c. Is left behind after the completion of reaction.
d. Is mostly a cheaper substance as compared to other reactants.

26. Which one of the following is a Lewis acid

- a. HCl b. NH_3
c. BH_3 d. BF_3

27. A gas law giving relationship between volume and temperature of a gas is:

- a. Dalton's Law
- b. Graham's Law
- c. Charle's Law
- d. Boyle's Law

28. Nitration of phenol can be carried out by using

- a. NaNO_2/HCl
- b. $\text{HNO}_3/\text{H}_2\text{SO}_4$
- c. NaNO_3
- d. None of these

29. Which of the following has acidic hydrogen

- a. Phenol
- b. Acetic acid
- c. Ethyne
- d. All of these

30. Which of the following can form hydrogen bonds:

- a. NH_3
- b. C_2H_6
- c. NaCl
- d. CHCl_3

31. Grignard reagent contains

- a. Magnesium metal
- b. Sodium atom
- c. Nitrogen atom
- d. None of the above

32. Whenever a reaction is exothermic, it means that:

- a. The heat is transferred from system to surrounding
- b. The heat is transferred from surrounding to system
- c. The heat content of reactants is greater than those of products
- d. The heat content of reactants is less than those of products

33. The wavelength range of visible spectrum is

- a. 400–750 nm
- b. 300–400 nm
- c. 350–600 nm
- d. 200–400 nm

34. Quantum number which has symbol "n" is called

- a. Principal quantum
- b. Azimuthal quantum
- c. Spin quantum.
- d. Magnetic quantum

35. Which type of reactions are given by Alkanes

- a. Addition
- b. Substitution
- c. Polymerization
- d. Elimination

36. Which of the following Carbocation is least stable:

- a. Methyl
- b. Primary alkyl
- c. Secondary alkyl
- d. Tertiary alkyl

37. Aniline is a derivative of benzene that contains

- a. Hydroxyl group
- b. Nitro group
- c. Acid group
- d. Amino Group

38. Alkanes are also called as

- a. Saturated hydrocarbons
- b. Unsaturated hydrocarbons
- c. Paraffins
- d. Both a & c

39. Phenol reacts with Br₂ in CCl₄ at low temperature to give

- a. ortho and para bromophenol
- b. para bromophenol
- c. 2,4,6-tribromophenol
- d. meta bromophenol

40. Aldehydes react with ethanol in the presence of HCl gas to form:

- a. Acetone
- b. Acetal
- c. Ethylal
- d. Acetyl Chloride

Section III- Islamic Studies

41. The revelation of Holy Quran was completed in :

- a. 20 years
- b. 21 years
- c. 23 years
- d. 25 years

42. What companion of Prophet (PBUH) was awarded with the title of "Shair-e-Khuda"?

- a. Umar Farooque (R.A)
- b. Ali Al-Murtaza (R.A)
- c. Hamza bin Abdul Mattalib (R.A)
- d. Khalid bin Waleed (R.A)

43. Which of the following Surah does not start with Bismillah

- a. Al-Numl
- b. Al-Tauba
- c. Al-Imran
- d. Al-Ina'am

44. Sihah Sitta are _____ books of Hadith

- a. 5
- b. 6
- c. 7
- d. 9

45. The longest Surah in the Holy Quran is :

- a. Surah Al-Falaq
- b. Surah Yaaseen
- c. Surah Al-Imran
- d. Surah Al-Baqarah

46. In Hajj, stoning the Devil, is called _____ .

- a. Istilam
- b. Sayee
- c. Ramee
- d. Tawaf

47. Namaz-e-Kasoof is offered at the time of _____ ?

- a. Lunar eclipse
- b. Solar eclipse
- c. Earthquake
- d. Both a & b

48. The age of the Holy Prophet (PBUH) at the time of his death was :

- a. 62 years
- b. 65 years
- c. 63 years
- d. 64 years

49. The importance of 27th of Rajb is due to :

- a. The revelation of the Quran
- b. Shab-e-Barat
- c. Shab-e-Miraj
- d. None of the above

50. Surah e Rehman is in _____ para of Quran

- a. 25th
- b. 26th
- c. 27th
- d. 28th

KEY

Biology

Sr.No	Correct Option	Sr.No	Correct Option
1	b	11	c
2	c	12	a
3	d	13	d
4	c	14	d
5	c	15	b
6	c	16	b
7	d	17	d
8	c	18	b
9	c	19	c
10	b	20	d

Part

Chemistry Part

Islamic Studies Part

Sr.No	Correct Option
41	c
42	b
43	b
44	b
45	d
46	c
47	d
48	c
49	c
50	c

Sr.No	Correct Option	Sr.No	Correct Option
21	b	31	a
22	b	32	c
23	c	33	a
24	b	34	a
25	b	35	b
26	d	36	a
27	c	37	d
28	b	38	c
29	d	39	a
30	a	40	b