# DADASAHEB BALPANDE COLLEGE OF PHARMACY, NAGPUR GPAT TEST SERIES, PAPER NO. 4 DATE: 03/12/18

The Henry's law is applicable if
a) the temperature and pressure are moderate
b) the solubility of the gas in the solvent is low
c) the gas doesnot react with the solvent to form a new species
d) All the above
<ol><li>mathematically, Raoult's law can be expressed as</li></ol>
a) $P_S - P/P = n/n + N$ b. $P_S - P/P = N/n + N$ c. $P_S + P/P = n/n + N$
d. P - Ps/P = n/n + N
3. Range of Particles used in colloidal dispersion?
A) 1nm to 1.5 b) 0.5 to 1 nm c) 2nm d) none of these
4. Amphiphiles are observed in?
A) Lyophilic colloids B) Lyophobic colloids
C) Association colloids D) Bothe B and C
5. Lyophilic colloids are
a) stable b) unstable c) metastable d) none of these
6. Thixotropic type of behavior is shown by the gel?
a) bentonite b) pectin c) silica d) starch
7. Protection against hydrolysis can be done by
a) buffers b) complexation c) suppression of solubility d) all of above
8. $k = Ae^{-Ea}/Rt$ in this eq. A stands for
a) arrhenious factor b) frequency factor c) stability factor d) both A &B
9. K= 2.303 /t log a / a-x is an equa&tion of
a. Zero order rate constant     b. First order rate constant
c. Second order rate constant d. Complex order rate constant
10. Phase rule is applicable for:
a. One component system b. Two component system c. Three component system d. All of then
11. Concentrations in ternary phase system are expressed on:
a. Molality b. Mole fraction c. Weight-Weight basis d. All of them
12. One parts solute dissolve in between 30 to 100 parts of solvent is called as:
a. Freely soluble b. Sparingly soluble c. soluble d. Slightly soluble
13. Heat of solution of NaCl at 25°C is:
a. 15 Kcal/mole b. 1 Kcal/mole c10 Kcal/mole d. 5 Kcal/mole
14. What is triple point of water:
a. 374°C b. 37.5°C c. 100.01°C d. 0.0098°C
15. Particle size determination by:

b. Rotation viscometer

ON DE COLL

d. Cascaele impacter

a. Pycnometer

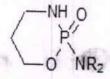
c. Tag open cup apparatus

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### DADASAHEB BALPANDE COLLEGE OF PHARMACY GPAT TEST SERIES, PAPER NO. 3

Date: 23/10/2018

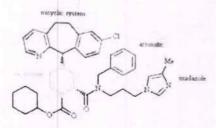
- 1. What term is used to indicate the ability of a cancer to invade other parts of the body and to produce secondary tumours?
  - a) Carcinogenesis b. Apoptosis c. Metastasis d. Mutagenesis
- 2. Which molecules are involved in the anchoring of cells to an extracellular matrix?
  - a) Integrins to Interleukins c. Angiostatin d. Cyclins
- 3. Cyclophosphamide is commonly used in anticancer therapy.



Which of the following statements is not true of the above structure?

- a) It is relatively non-toxic. B. It acts as a prodrug
- c. It cannot be taken orally. The structure is metabolised to release acrolein.
- 4 . What is the name of the following anticancer drug?

- b) Cryptophycin c. Phyllanthoside d. Maytansine l c) Spongistatin 1
- 5. The following structure is an inhibitor of the enzyme responsible for adding a farnesyl chain to the Ras protein.



Which feature binds to the zinc cofactor of the enzyme?

- a) The tricyclic system b. The piperazine ring c. The aromatic ring

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## DADASAHEB BALPANDE COLLEGE OF PHARMACY GPAT TEST SERIES PAPER NO. 2 Date: 03/09/18

which one of the following classes of
which one of the following classes of
D) Piperine
-1
6.50
Acid
Acid
tissues or intact tissues by enzymatic
fissues or intact tissues by enzymatic
to ends of the gel.
1 - horan
Many
-0
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#### DADASAHEB BALPANDE COLLEGE OF PHARMACY

G-PAT TEST SERIES 2018-19

Time allotted: 3 hours

Max. Marks: 450

Date: 15th January 19

#### INSTRUCTIONS

- Questions booklet contains blank sheets for your rough work. No additional sheets will be provided for rough work.
- Clip board, log tables, slide rule, calculator, cellular phone and electronic gadgets in any form are not allowed.
- 3. Write the name in space provided at the top of the answer- sheet
- Choose the correct answer of the question and write in a respective circle in answer-sheet.
   Any over-writing will be considered as a wrong answer.
- 5. Each question carries 3 marks. Wrong/incorrect answer awarded with negative 1 mark.
- 6. Multiple answers to the question will be treated as a wrong answer
- 7. For each unattempted question you will awarded zero mark

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1. Shick test	is used for dete	ection of			
a) Diptheria	b) T.B.	c) Cholera		d) Typhoid	
2. Anthrax v	accine is prepar	red by			1.
a) Attenuated bac		ng the bacilli		bacilli	d) None
3. Pertussis v	accine is	<b></b> .			
a) Heat killed 4. DPT is	b) Formalin	killed c) At	tenuated	d) Liv	ve
a) Triple vaccine	b) Double v	accine c)	Tetanus to	oxoid c	1) All

- 5. Vaccines used against viral infections are
- a) Measles & mumps vaccines

b) Cholera vaccine

c) Typhoid vaccine

- d) Anti-rickettsial vaccine
- 6. Example for live vaccine is
- a) Rubella and BCG

b) Polio and TAB

c) Diptheria and tetanus

- d) Hepatitis A and Rabies
- 7. Opsonin is the
- a) Cell wall component
- b) Plasma component
- c) Serum component
- c) Cytoplasm component
- 8. Conductance of an electrolyte solution at two different temperatures will be

A. Different

B. Same C.:Lower at lower temp.

- D. Higher at lower temp.
- 9. While using octadecyl column the chromatography is

A.Adsorpion B.Normal phaseC.Reverse phase

D.Octagonal

10. The commonly used cross linking agent is:

A] Polyestrene

B] Silica gel

C] Divinyl benzene

D] none of the above



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