

Answer Key: Assistant Professor (Pharmacy)

Q No	Key
1	C
2	A
3	C
4	A
5	D
6	A
7	C
8	C
9	A
10	A
11	D
12	A
13	A
14	A
15	A
16	D
17	C
18	A
19	A
20	C
21	B
22	B
23	B
24	C
25	A

Q No	Key
26	D
27	B
28	D
29	B
30	B
31	D
32	D
33	B
34	D
35	B
36	A
37	C
38	C
39	A
40	D
41	A
42	C
43	A
44	A
45	B
46	A
47	D
48	A
49	D
50	D

Test Booklet

Series

A

Test Booklet No.

**Test Booklet for the Post of
Assistant Professor Pharmacy**

Name of Applicant Answer Sheet No.

Applicant ID/Roll No. : Signature of Applicant :

Date of Examination: Signature of the Invigilator(s)
1.

Time of Examination : 2.

Duration : 1 Hour]

[Maximum Marks : 50

IMPORTANT INSTRUCTIONS

- (i) The question paper is in the form of Test-Booklet containing **50 (Fifty)** questions. All questions are compulsory. Each question carries four answers marked (A), (B), (C) and (D), out of which only one is correct. Choose the correct option or the most appropriate option.
- (ii) On receipt of the Test-Booklet (Question Paper), the candidate should immediately check it and ensure that it contains all the pages, i.e., **50** questions. Discrepancy, if any, should be reported by the candidate to the invigilator immediately after receiving the Test-Booklet.
- (iii) A separate Answer-Sheet is provided with the Test-Booklet/Question Paper. On this sheet there are **50** rows containing four circles each. One row pertains to one question.
- (iv) The candidate should write his/her Application ID/Roll number at the places provided on the cover page of the Test-Booklet/Question Paper and on the Answer-Sheet and **NOWHERE ELSE**.
- (v) No second Test-Booklet/Question Paper and Answer-Sheet will be given to a candidate. The candidates are advised to be careful in handling it and writing the answer on the Answer-Sheet.
- (vi) For every correct answer of the question **One (1) mark will be awarded**. There will be negative marking and 1/4 (0.25) mark will be deducted for every incorrect answer.
- (vii) Marking shall be done only on the basis of answers responded on the Answer-Sheet.
- (viii) To mark the answer on the Answer-Sheet, candidate should **darken** the appropriate circle in the row of each question with Blue or Black pen.
- (ix) For each question only **one** circle should be **darkened** as a mark of the answer adopted by the candidate. If more than one circle for the question are found darkened or with one black circle any other circle carries any mark, the answer will be treated as incorrect.
- (x) The candidates should not remove any paper from the Test-Booklet/Question Paper. Attempting to remove any paper shall be liable to be punished for use of unfair means.
- (xi) Rough work may be done on the blank space provided in the Test-Booklet/Question Paper only.
- (xii) *Mobile phones (even in Switch-off mode) and such other communication/programmable devices are not allowed inside the examination hall.*
- (xiii) No candidate shall be permitted to leave the examination hall before the expiry of the time.

DO NOT OPEN THIS QUESTION BOOKLET UNTIL ASKED TO DO SO.

Pharmacy

[P.T.O.

16 / 1

1. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A) : The Ayurvedic drug Asava contains self generated alcohol.

Reason (R) : For preparation of Asava the extract of drugs is subjected to a process of calcination.

In light of the above statements, choose the most appropriate answer from the options given below :

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A)
(B) Both (A) and (R) are correct but (R) is not the correct explanation of (A)
(C) (A) is correct but (R) is not correct
(D) (A) is not correct but (R) is correct

2. Match the following under chemical compounds under Column I with their respective chemical tests under Column II.

Column-I	Column-II
Compounds	Chemical tests
(a) Quinine	(i) Borntrager's
(b) Digitoxin	(ii) Thallequin
(c) Atropine	(iii) Vitali Morin
(d) Sennosides	(iv) Meller Killiani

Choose the correct answer from the options given below :

- (A) (a)–(ii), (b)–(iv), (c)–(iii), (d)–(i) (B) (a)–(iii), (b)–(iv), (c)–(ii), (d)–(i)
(C) (a)–(i), (b)–(ii), (c)–(iii), (d)–(iv) (D) (a)–(iv), (b)–(iii), (c)–(ii), (d)–(i)

3. Match the following vaccines under Column-I with their respective content under Column-II

Column-I	Column-II
Vaccine	Content
(a) OPV	(i) Killed bacteria
(b) Typhoid (TAB)	(ii) Live bacteria
(c) Tetanus	(iii) Killed virus
(d) BCG	(iv) Live virus (v) Toxoid

Choose the correct answer from the options given below :

- (A) (a)–(iii), (b)–(v), (c)–(i), (d)–(ii) (B) (a)–(i), (b)–(ii), (c)–(v), (d)–(iii)
(C) (a)–(iv), (b)–(i), (c)–(v), (d)–(ii) (D) (a)–(ii), (b)–(iii), (c)–(iv), (d)–(i)

4. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A) : Gram negative bacteria do not retain the primary stain when washed with alcohol and subsequently stained again with secondary stain.

Reason (R) : The outer membrane of gram negative bacteria contains lipopolysaccharides.

In light of the above statements, choose the correct answer from the options given below :

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is not the correct explanation of (A)
- (C) (A) is true but (R) is not false
- (D) (A) is false but (R) is true

5. The initial concentration of a drug decomposing according to first order kinetics is 28 units/mL. The specific decomposition rate, k , obtained from an Arrhenius plot is $2.09 \times 10^{-5} \text{ hr}^{-1}$ at room temperature, 25°C. Previous experimentation has shown that when the concentration of the drug falls below 15 units/mL it is not sufficiently potent for use and should be removed from the market. What expiration date should be assigned to this product?

- (A) Approximately 31,012.15 hours
- (B) Approximately 32,225.56 hours
- (C) Approximately 27,216.12 hours
- (D) Approximately 29,869.23 hours

6. Match the following :

- | | |
|---------------|---|
| (a) Apoptosis | (i) Progressive degradative action of Enzymes |
| (b) Necrosis | (ii) Tightly regulated intracellular program in which destined cells to die |
| (c) Anaplasia | (iii) Abnormal mass of tissue |
| (d) Neoplasm | (iv) Lack of differentiation |

Codes :

- (A) (a)–(ii), (b)–(i), (c)–(iv), (d)–(iii)
- (B) (a)–(iv), (b)–(iii), (c)–(ii), (d)–(i)
- (C) (b)–(i), (c)–(ii), (d)–(iii), (a)–(iv)
- (D) (c)–(ii), (d)–(iii), (a)–(iv), (b)–(i)

7. Match List-I with List-II.

List-I	List-II
Equipment	Model/Trade Name/Type
(a) Low shear mixer	(i) Manestry Drycota
(b) Rotary tablet machine	(ii) Chilsonator (Fitzpatrick)
(c) Capsule filling machine	(iii) Slated Double Cone Mixer
(d) Compaction mill	(iv) Prosolv (JRS Pharma)
	(v) PCF 1200 Model (Pharma Land)

Choose the correct answer from the options given below :

- (A) (a)–(i), (b)–(ii), (c)–(iv), (d)–(iii)
- (B) (a)–(ii), (b)–(iii), (c)–(i), (d)–(iv)
- (C) (a)–(iii), (b)–(i), (c)–(v), (d)–(ii)
- (D) (a)–(i), (b)–(ii), (c)–(iv), (d)–(iii)

8. Which of the following is a competitive antagonist at benzodiazepine site of GABA receptor gated chloride channel?

- (A) Muscimol
- (B) Picrotoxin
- (C) Flumazenil
- (D) Beta-carboline (DMCM)

9. The split up of time cycle of cardiac cycle

- (A) VS-0.3 sec VD-0.5 sec AS-0.1 sec AD-0.7 sec
- (B) VS-0.5 sec VD-0.3 sec AS-0.7 sec AD-0.1 sec
- (C) VS-0.3 sec VD-0.5 sec AS-0.5 sec AD-0.3 sec
- (D) VS-0.5 sec VD-0.3 sec AS-0.3 sec AD-0.5 sec

10. Amine group protection during peptide synthesis can be accomplished by converting the amine to

- (A) 9 – Fluorenylmethylcarbamate
- (B) 1.3 – Dithiane
- (C) Tetrahydropyranyl ether
- (D) Dimethylacetal

11. Some individuals are obsessed with using purgatives regularly as a reflection of their psychological problem. Dangers of purgative overuse include all of the following EXCEPT :
- (A) Flaring up of intestinal pathology like rupture of inflamed appendix
 - (B) Fluid and electrolyte imbalance, especially hypokalemia
 - (C) Steatorrhoea, malabsorption syndrome
 - (D) Protein build up in the body as a result of enteropathy

12. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A) : Quillaia tincture is included in Potassium Citrate Mixture BPC.

Reason (R) : Because Quillaia tincture act as an emulgent in Potassium citrate Mixture BPC, and prevent separation of lemon oil as a surface layer when the lemon spirit is added.

In light of the above statements, choose the correct answer from the options given below :

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is not the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true

13. Match List I with List II :

List-I	List-II
Term or Phrase	Meaning
(a) Gutturi	(i) Into the left ear
(b) In oculum sinistram	(ii) Into the right eye
(c) In aurem sinistram	(iii) For the left eye
(d) In oculum dextrum	(iv) To the throat

Choose the correct answer from the options given below :

- (A) (a)–(iv), (b)–(iii), (c)–(i), (d)–(ii)
- (B) (a)–(ii), (b)–(i), (c)–(iv), (d)–(iii)
- (C) (a)–(iii), (b)–(iv), (c)–(i), (d)–(ii)
- (D) (a)–(i), (b)–(iii), (c)–(ii), (d)–(iv)

14. Desmethyl diazepam is an active metabolite, having an elimination half-life of more than 40 hours, of all the following drugs EXCEPT :

- (A) Flurazepam (B) Chlordiazepoxide
(C) Clorazepate (D) Diazepam

15. A condition in which there is severe loss of extra-cellular fluid due to hemorrhage, diarrhea, severe vomiting or sweating followed by shrinkage of blood volume, reduction of venous inflow to the heart, reduction of cardiac output and fall of blood pressure is known as :

- (A) Hypovolemic shock (B) Anaphylactic shock
(C) Septic shock (D) Cardiogenic shock

16. Which is NOT the colligative property?

- (a) Depression of freezing point
(b) Elevation of boiling point
(c) Elevation of vapour pressure
(d) Osmotic pressure

Choose the correct one of the following :

- (A) (a), (b) and (d) (B) (a) and (b)
(C) (a) and (d) (D) (c) only

17. All the following can determine the protein structure except

- (A) Mass spectrometry
(B) X-ray crystallography
(C) High performance liquid chromatography
(D) NMR spectroscopy

18. The properties of solutions containing surface active agents change sharply over a narrow concentration range and are called as

- (A) Critical micelle concentration (B) Ionic concentration
(C) Hydrogen ion concentration (D) Surface tension

19. Match List-I with List-II :

List-I	List-II
Name of Material	Remark
(a) Brasses	(i) Copper-Tin Alloy
(b) 18/8 Stainless steel	(ii) Rigid material
(c) Keebush	(iii) Chromium and Nickel
(d) Bronzes	(iv) Flexible material
	(v) Copper-Zinc alloys

Choose the correct answer from the options given below :

- (A) (a)–(v), (b)–(iii), (c)–(ii), (d)–(i)
(B) (a)–(iii), (b)–(ii), (c)–(i), (d)–(v)
(C) (a)–(iv), (b)–(ii), (c)–(i), (d)–(iii)
(D) (a)–(ii), (b)–(iv), (c)–(v), (d)–(iii)

20. Which of the following is a half-reaction?

- (A) $\text{Zn} + \text{Cu}^{2+} \rightarrow \text{Zn}^{2+} + \text{Cu}$ (B) $\text{H}^+ + \text{OH}^- \rightarrow \text{H}_2\text{O}$
(C) $\text{Ag}^+ + \text{e}^- \rightarrow \text{Ag}$ (D) $\text{Ag}^+ \text{Cl}^- \rightarrow \text{AgCl}$

21. In Mier's theory of supersaturation, solubility chart displays the profile of curve with positive and very low slope in

- (A) KNO_3 (B) NaCl
(C) MnSO_4 (D) None of the above

22. This compound 2, 5, 8, 11, 14, 17, 20, 23, 26-nona-oxaocacosan-28-yl p-(butylamino) benzoate is usually known for its activity.
- (A) Antifungal (B) Antitussive
(C) Vitamin (D) Glucocorticoid
23. The immunosuppressant action of cyclosporine is due to
- (A) Interference with antigen recognition
(B) Inhibition of gene transcription of interleukins
(C) Blockade of tissue response to inflammatory
(D) Inhibition of cell wall synthesis
24. Prostaglandin analogs have therapeutic utility in the following EXCEPT
- (A) Impotence
(B) Peripheral vascular disease
(C) Palliative treatment of patent ductus arteriosus
(D) Pulmonary hypertension
25. "Wheal and Flare" reaction is characteristic reaction associated with identification of :
- (A) Type-1 hypersensitivity reaction
(B) Type-2 hypersensitivity reaction
(C) Type-3 hypersensitivity reaction
(D) Type-4 hypersensitivity reaction

26. Match the Tablet Diluents with their properties :

List-I	List-II
Tablet Diluent	Properties
(a) Lactose	(i) 2 to 4 percent of moisture
(b) Mannitol	(ii) Maillard reaction
(c) Calcium phosphate	(iii) Negative heat of solution
(d) Specially dried starch	(iv) Contraindicated for Tetracycline

Choose the correct answer from the options given below :

- (A) (a)–(iii), (b)–(iv), (c)–(i), (d)–(ii)
- (B) (a)–(ii), (b)–(iv), (c)–(i), (d)–(iii)
- (C) (a)–(iii), (b)–(i), (c)–(iv), (d)–(ii)
- (D) (a)–(ii), (b)–(iii), (c)–(iv), (d)–(i)

27. The dehydration of aldol product of two acetaldehyde molecules through E1cb mechanism affords formation of

- (A) 1-Butenal
- (B) 2-Butenal
- (C) 3-Butenal
- (D) 4-Butenal

28. The absorption maxima of ephedrine hydrochloride and chlorocresol are 257 nm and 279 nm respectively and the A (1%, 1 cm) values in 0.1 M hydrochloric acid solution are : 9.0 and zero for ephedrine hydrochloride at 257 nm and at 279 nm respectively. For chlorocresol it is 20.0 and 105.0 at 257 nm and at 279 nm respectively. Calculate the concentration of ephedrine hydrochloride in a batch of *Ephedrine hydrochloride injection*, diluted 1 to 25 with water, giving the absorbance in 1 cm cell of 0.424 at 279 nm and 0.972 at 257 nm.

- (A) 1.010 mg/ml
- (B) 6.25 mg/ml
- (C) 12.5 mg/ml
- (D) 24.75 mg/ml

29. Match the following :

- | | |
|-----------------|---|
| (a) Schedule M | (i) Regulations regarding Life period and storage of various drugs |
| (b) Schedule FF | (ii) Regulations for manufacturing, premises, waste disposal, requirements of plant and equipments (Good Manufacturing Practices) |
| (c) Schedule G | (iii) Various drugs to be used under the medical supervision |
| (d) Schedule P | (iv) Standards for Ophthalmic preparations. |

Choose the correct answer from the options given below :

- (A) (a)–(i), (b)–(ii), (c)–(iii), (d)–(iv)
(B) (a)–(ii), (b)–(iv), (c)–(iii), (d)–(i)
(C) (a)–(iv), (b)–(ii), (c)–(iii), (d)–(i)
(D) (a)–(iii), (b)–(i), (c)–(ii), (d)–(iv)

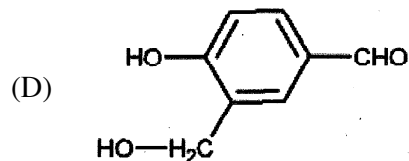
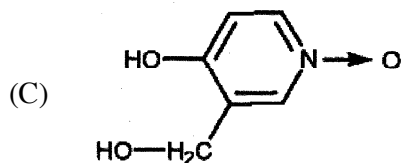
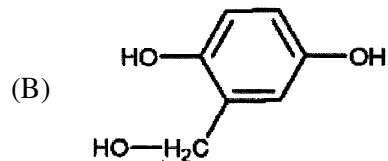
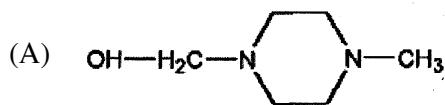
30. Which of the following ointment bases is an ingredient of an absorption base?

- | | |
|-----------------------------|-------------------|
| (A) Petrolatum | (B) Lanolin |
| (C) Hydrogenated castor oil | (D) Cetyl alcohol |

31. Chitosan possesses which of the following property?

- | | |
|-------------------------|----------------------|
| (A) Hypocholesterotemic | (B) Antimicrobial |
| (C) Wound healing | (D) All of the above |

32. Salbutamol is prepared from

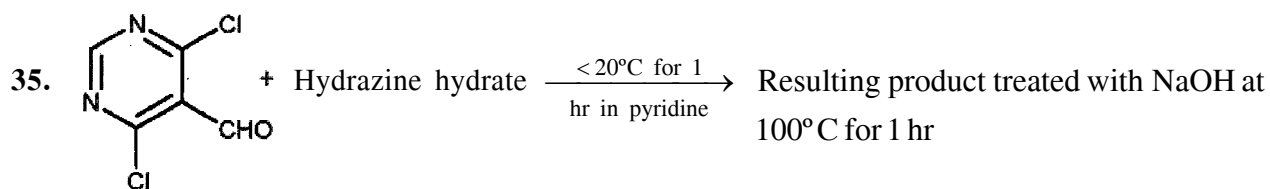


33. The equation $E = E^{\circ} + \frac{RT}{nF} \ln aM^{n+}$ is used to measure the

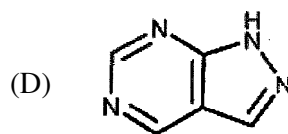
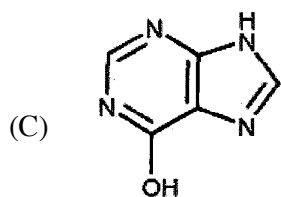
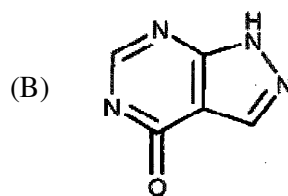
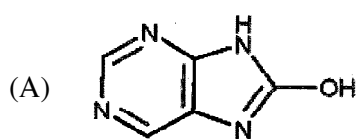
- (A) Conductance (B) Potential difference
(C) Resistance (D) Current

34. 3,4 Benzpyrene present in cigarette smoke reduces the therapeutic activity of Diazepam by

- (A) Altering excretion
(B) Binding to plasma proteins
(C) Inhibiting metabolism
(D) Increasing the activity of liver microsomal enzymes



gave an effective product for the treatment of Gout Identity



36. Match Group-I with Group-II and identify the correct combinations

Group-I	Group-II
Bark Diagnostic	Microscopical Characters
P. Kurchi	1. Heavily lignified phloem fibres with Y-shaped pits, secretory canals, microcrystals of calcium oxalate
Q. Cascara	2. Pericycle with stone cells having horse-shoe shaped thickening, oil cells, minute needles of calcium oxalate
R. Cinnamon	3. Alternating layers of stone cells and phloem, nonlignified pericyclic fibres, prismatic crystals of calcium oxalate
S. Cinchona	4. Wavy medullary rays, groups of heavily lignified sclereids, crystal sheath of calcium oxalate
(A) P-2, Q-1, R-4, S-3	(B) P-4, Q-3, R-1, S-2
(C) P-3, Q-4, R-2, S-1	(D) P-1, Q-2, R-3, S-4

37. Match Group-I with Group-II and identify the correct combinations

Group-I	Group-II
Drug	Mechanism of action is by inhibition of
P. Levofloxacin	1. DNA dependent RNA polymerase
Q. Caspofungin	2. Topoisomerase II (DNA gyrase) the enzyme that Produces a negative supercoil
R. Aztreonam	3. The synthesis of b(1-2) glycan
S. Rifabutin	4. Cell wall synthesis preferentially binding to a Specific penicillin binding protein
(A) P-2, Q-3, R-4, S-1	(B) P-3, Q-4, R-1, S-2
(C) P-4, Q-1, R-2, S-3	(D) P-1, Q-2, R-3, S-4

38. Match Group-I with Group-II and identify the correct combinations

Group-I Drug	Group-II 7-Substitution in 1, 3-dimethyl xanthine with
P. Diprophylline	1. $\begin{array}{c} \text{---CH}_2\text{---CH---CH}_2\text{OH} \\ \\ \text{OH} \end{array}$
Q. Ethophylline	2. $\begin{array}{c} \text{---NH---CH}_2\text{---N} \begin{array}{l} \nearrow \text{CH}_2\text{---CH}_3 \\ \searrow \text{CH}_2\text{---CH}_3 \end{array} \end{array}$
R. Etamiphylline	3. $\text{---CH}_2\text{---CH}_2\text{---OH}$
S. Proxiphylline	4. $\begin{array}{c} \text{---CH}_2\text{---CH---CH}_3 \\ \\ \text{OH} \end{array}$

(A) P-3, Q-2, R-4, S-1

(B) P-2, Q-4, R-3, S-1

(C) P-1, Q-3, R-2, S-4

(D) P-1, Q-4, R-3, S-2

39. Match Group-I with Group-II and identify the correct combinations

Group-I Term used	Group-II Explanation
P. Chromophore	1. Amino group
Q. Blue shift	2. Increase in wavelength of absorption
R. Auxochrome	3. Decrease in wavelength of absorption
S. Red shift	4. Carbonyl group

(A) P-4, Q-3, R-1, S-2

(B) P-3, Q-1, R-2, S-4

(C) P-1, Q-2, R-3, S-4

(D) P-2, Q-4, R-3, S-1

40. Match Group-I with Group-II and identify the correct combinations

Group-I	Group-II
Type of inhibitor	Description
P. Competitive inhibitors	1. Have affinity only for the [E-S] complex and not for the free [E]
Q. Non-competitive inhibitors	2. Binding of the inhibitor and that of the natural substrate are mutually exclusive
R. Uncompetitive inhibitors	3. Ultimately binds covalently to the enzyme
S. Suicide inhibitors	4. Binds with the same affinity to [E] and [E-S]
(A) P-3, Q-2, R-1, S-4	(B) P-1, Q-3, R-2, S-4
(C) P-4, Q-1, R-3, S-2	(D) P-2, Q-4, R-1, S-3

41. Match Group-I with Group-II and identify the correct combinations

Group-I	Group-II
Condition	Description
P. Agranulocytosis	1. Reduced lifespan of erythrocytes
Q. Anisocytosis	2. Lack of neutrophils
R. Aplastic anemia	3. Abnormal variation in RBC size
S. Hemolytic anemia	4. Depression of synthesis of all cell types in bone marrow
(A) P-2, Q-3, R-4, S-1	(B) P-2, Q-4, R-3, S-1
(C) P-1, Q-2, R-4, S-3	(D) P-4, Q-2, R-1, S-3

42. Match List-I with List-II Match the following with their mechanism of action

List-I	List-II
Mechanism of action	Drugs
(a) DPP4 inhibitors	I. Metformin
(b) K_{ATP} Channel Blocker	II. Pioglitazone
(c) PPAR _γ activator	III. Glimepiride
(d) AMP _K Activator	IV. Teneligliptin
	V. α glucosidase inhibitors

Choose the correct answer from the options given below :

- | | |
|------------------------------------|------------------------------------|
| (A) (a)-II, (b)-V, (c)-III, (d)-IV | (B) (a)-II, (b)-III, (c)-IV, (d)-I |
| (C) (a)-IV, (b)-III, (c)-II, (d)-I | (D) (a)-IV, (b)-I, (c)-V, (d)-III |

43. Match List I with List II

List-I (Poisoning)	List-II (Treatment)
1. Warfarin	P. Pralidoxime
2. Carbon monoxide	Q. Oxygen
3. Cyanide	R. Vitamin K
4. Nitrites	S. Dicobalt edatate
5. Organophosphates	T. Methylene blue

Choose the correct answer from the options given below : More text goes here.

- (A) 1-R, 2-Q, 3-S, 4-T, 5-P (B) 1-P, 2-Q, 3-T, 4-S, 5-R
(C) 1-Q, 2-S, 3-P, 4-R, 5-T (D) 1-T, 2-Q, 3-R, 4-P, 5-S

44. The quadruple therapy of Helicobacter pylori infection includes

- (A) Bismuth subsalicylate, metronidazole, tetracycline and a proton pump inhibitor
(B) Streptomycin, metronidazole, tetracycline and a proton pump inhibitor
(C) Sulfasalazine, metronidazole, tetracycline and a proton pump inhibitor
(D) Bismuth subsalicylate, metronidazole, azithromycin and a proton pump inhibitor

45. Which statements are not true about the grafts?

- (a) Isografts are grafts in which the donor and recipient is the same individual.
(b) Autografts are grafts between the donor and recipient of the same genotype.
(c) Allografts are those in which the donor is of the same species but of a different genotype.
(d) Xenografts are those in which the donor is of a different species from that of the recipient.

Choose the correct answer from the options given below :

- (A) (a), (b) and (d) only (B) (a) and (b)
(C) (b) and (c) (D) (c) and (d)

46. At the site of tissue injury, the activated platelet releases ADP and activates surrounding platelets to form platelet plug, but this process will not continue to activate whole platelets in the body to form a massive ball of platelets because

- (A) The adjacent normal endothelial cells physiologically release 'NO' which is a platelet inhibitor
(B) There will be plasminogen activators in the plasma
(C) There will be plasminogen activator inhibitors in plasma
(D) There will be a tissue plasminogen activator (tPA) which inhibits the platelets

47. Which of the statement is true in geriatrics practice?
- (A) The incidence of Adverse Drug Reactions diminishes with advancement of age
 - (B) Dose reduction is inevitable for each and every drug used in geriatric patients
 - (C) Patient compliance is highest in geriatric patients
 - (D) Polypharmacy is often a problem in elderly
48. Which of the following statements are true with the Adverse Drug Reactions?
- (a) Any response to a drug which is noxious and unintended
 - (b) Which occurs at doses normally used in man for prophylaxis, diagnosis or therapy of a disease
 - (c) Adverse drug event is same as that of adverse Drug Reaction
 - (d) Which occurs at normal dose or overdose when used for prophylaxis, diagnosis or therapy of a disease

Choose the correct answer from the options given below :

- (A) (a) and (b) are true while (c) and (d) are false
 - (B) (a) and (c) are true while (b) and (d) are false
 - (C) (b), (c) and (d) are false, Only (a) is true
 - (D) (a), (b) and (c) are false, Only (d) is true
49. Given below are two statements
- Statement I :** Drugs Controller General of India is the Chairman of Drugs Technical Advisory Board (DTAB)
- Statement II :** In DTAB, there will be eight ex-officio members, five nominated and five elected members In light of the above statements, choose the most appropriate answer from the options given below
- (A) Both Statement I and Statement II are correct
 - (B) Both Statement I and Statement II are incorrect
 - (C) Statement I is correct but Statement II is incorrect
 - (D) Statement I is incorrect but Statement II is correct

50. Match List-I of Unit operations of crystallizers with List-II of principle/characteristics properties of crystallizer

Crystallizer	Principle/Characteristics
Unit operations	Properties
(a) Swenson-walker crystallizer	I. Adiabatic evaporative cooling
(b) Krystal crystallizer	II. Cooling alone
(c) Vacuum crystallizer	III. Evaporation
(d) Forced circulation type crystallizer	IV. Heat exchange, separation, circulation

Choose the correct answer from the options given below :

- | | |
|------------------------------------|------------------------------------|
| (A) (a)–I, (b)–II, (c)–IV, (d)–III | (B) (a)–III, (b)–I, (c)–IV, (d)–II |
| (C) (a)–I, (b)–IV, (c)–III, (d)–II | (D) (a)–II, (b)–III, (c)–I, (d)–IV |

ROUGH WORK

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