

## Answer Key's

<b>1</b>	C	<b>2</b>	B	<b>3</b>	B	<b>4</b>	B	<b>5</b>	B	<b>6</b>	C	<b>7</b>	B
<b>8</b>	C	<b>9</b>	D	<b>10</b>	A	<b>11</b>	A	<b>12</b>	B	<b>13</b>	A	<b>14</b>	B
<b>15</b>	B	<b>16</b>	A	<b>17</b>	A	<b>18</b>	A	<b>19</b>	B	<b>20</b>	B	<b>21</b>	D
<b>22</b>	C	<b>23</b>	D	<b>24</b>	A	<b>25</b>	A	<b>26</b>	B	<b>27</b>	C	<b>28</b>	D
<b>29</b>	B	<b>30</b>	B	<b>31</b>	D	<b>32</b>	B	<b>33</b>	B	<b>34</b>	B	<b>35</b>	C
<b>36</b>	A	<b>37</b>	B	<b>38</b>	B	<b>39</b>	A	<b>40</b>	C	<b>41</b>	A	<b>42</b>	C
<b>43</b>	B	<b>44</b>	C	<b>45</b>	D	<b>46</b>	A	<b>47</b>	A	<b>48</b>	B	<b>49</b>	C
<b>50</b>	D	<b>51</b>	B	<b>52</b>	D	<b>53</b>	C	<b>54</b>	B	<b>55</b>	C	<b>56</b>	A
<b>57</b>	A	<b>58</b>	A	<b>59</b>	A	<b>60</b>	A	<b>61</b>	A	<b>62</b>	B	<b>63</b>	B
<b>64</b>	C	<b>65</b>	A	<b>66</b>	D	<b>67</b>	A	<b>68</b>	C	<b>69</b>	A	<b>70</b>	D
<b>71</b>	A	<b>72</b>	B	<b>73</b>	A	<b>74</b>	B	<b>75</b>	A	<b>76</b>	A	<b>77</b>	A
<b>78</b>	B	<b>79</b>	A	<b>80</b>	B	<b>81</b>	A	<b>82</b>	B	<b>83</b>	C	<b>84</b>	C
<b>85</b>	D												

## Explanations:

- Vitamin A

Carr-price method is based on the intensity of blue colour developed with a solution of antimony trichloride in  $\text{CHCl}_3$
- Type II glass

Type II glass is treated soda-lime glass and used for pharmaceutical purposes
- 45 % R.H

R.H should be 45 % in the formulation of capsules in order to prevent the shell from attack from moisture
- Scopolamine

Scopolamine is used in the treatment of motion sickness. It contains tropic acid + Scopolamine
- Carbonic anhydrase

Iron is the essential component of Carbonic anhydrase.
- Mefloquine

Mefloquine is used in the treatment of multidrug resistance strain of Plasmodium falciparum.
- It inhibits the viral RNA dependent DNA polymerase. Azidothymidine acts by inhibiting the viral RNA dependent DNA polymerase

8. Rifampicin  
Orange red coloured urine is relatively common side effect of Rifampin
9. Antiinflammatory  
Meconic acid is present only inopinm
10. Post control  
The sex pheromones such as 7,8cpoxy-2-methyl.  
Octadecane have been exploited for post control
11. Ornithine  
Hyoscyamine contains 0.045-0.15 alkaloids  
Hyoscyamine ia an ester of tropic aid and tropine.
12. Lipid solubility  
Anaesthetic property is due to high lipid solubility.
13. Piroxicam  
Piroxicam contains 1,2 benicothiazine mojety used
14. Phenytoin  
Diphenyldiketone is condensed with urea in presence of alcoholic alkali gives phenytoin. It is a anticonvulsant drug
15. Stimulation of  $\beta_1$  receptor  
Dobutamine is a cardiovas drug acts by stimulation of  $\beta_1$  receptor.
16. Buspirone  
Azaspiro decadiene derivative having antianxiety property is Buspirone.
17. 2-Chlorophenothiazine  
3 chloro diphenylamine is condensed with sulphne in presence of iodine gives 2-chlorophenothiazine
18. Diphenhydramine  
Acute dystonic reaction and akathesia are the major effects produced by Dipenhydramine
19. uslfan  
Antineoplastic agent that is classified as an alkylating agent is Busulfan.
20. Acid value  
Acid value is estimated of due tally acids presents in fats/oils.

21. Fluorescence  
Fluorescence is the emission of radiation of longer wavelength than the irradiated radiation.
22. Flame photometry  
Flame photometry is concerned with estimation of alkali and alkaline earth metals.
23. Deuterium lamp  
Deuterium lamp produces a radiation which has a range of 200-400nm.
24. Nicotine  
Alkaloids are basic in nature and Nicotine is a non oxygenated alkaloid. Conine is also liquid alkaloid and volatile.
25. Methanol + Benzoic acid + Ecgonine  
Cocaine is methyl benzoyl ecgonine and has stimulant action on CNS. It also has local anesthetic action.
26. Vitamin D<sub>2</sub>  
Vitamin D<sub>2</sub> is isomeric with Vit D. Tachysterol is an intermediate product formed during irradiation.
27. Phlithamine  
Phlithamine is fully substituted phthalimide. It is 2,4 di amino 5-chlorophenyl 6-ethyl phthalimide.
28. Optic neuritis is the chief adverse effect of Ethambutol
29. Directly proportional to surface area less energy is required when the surface area of the particle is less during size reduction.
30. Form 25  
Form 25 contained license issued to manufacture for sale of drugs other than those specified in schedule
31. 2-3 hours
32.  $2000\text{cm}^{-1}$   
 $\lambda = 5\ \mu$  and  
 $1/\lambda = 1/5 \times 10^{-3} = 2000\text{cm}^{-1}$ .
33. Conduct meter  
Conduct meter is used for studies related to sparingly soluble salt.
34. Ilkovic equation  
Diffusion current is calculated by Ilkovic equation.

35. Gastric disease  
H<sub>2</sub> receptor antagonists are used as antinuclear drugs.
36. Inactivate bacterial  $\beta$ -lactamase  
Clavulinic acid act by inactivating bacterial  $\beta$ -lactamase.
37. Procaine  
Procaine is non irritant local anesthetic  
It is a diethyl amino derivate of Benzocaine  
It is prepared under pressure
38. Streptidine + streptose + N-methyl glucosamine  
Streptose—di acidic base and contains two amino groups  
Streptose—Mono acidic from disaccharidic.  
Streptomycin is obtained from streptomyces glucose.
39. Polyene antibiotic such as nystatin acts by reaction with sterols of cell membrane.
41. Lacrimal fluid  
Lysozyme is present in Lacrimal fluid.
42. Propoxyphene  
The metabolite of propoxyphene (an opioid) produces cardiotoxicity.
43. E.coli  
Basilin is isolated from bacillus licheniformis forms.  
Basilin is a polypeptide antibiotic  
Basilin A is the principal component and it is a dodecapeptide.
44. Rallwolfia  
Rallwolfia cork is stratified and consists of 2 to 8 zones each zone consists of 1 to 7 layers of radially suberized and non lignified cells.
45. Lignins  
Lignins on treatment with phloroglucinol and HCl gives pink coloration.
46. Foaming property  
Foaming property is an important characteristic of shampoo and Betaines are used for this property.
47. Pethidine  
Pethidine is a derivative of hexahydropyridine. It is a strong tertiary base. It has analgesic property.

48. Fblmorrhagic cystitis  
2 bis (2 chloro ethyl) amino per hydro 1,3,2 oxazaphospho rinase produces haemosehegic cystitis as a major side effect.
49. Potassium hydrogen pthulate  
Potassium hydrogen phthalate is used as standardizing agent for acetones per chloric acid.
50. Both A&B nujol, hexochlorobutadiarne  
mulling is a technique in which the sample is mixed with mulling agents and IR spectroscopy is taken  
mulling technique is used for solid samples
51. 11 $\beta$ ,17 $\alpha$  ,21trihydroxy 1,4 pregnadiene,3,2 dione.  
It is an adreno corticoid which does not occurs in nature.
52. P.nitio aniline and benzyl chloride.  
P.nitio aniline and benzyl chlorideare need as starting material for synthesis of nitrazepam.
53. Podophyllum peltatum  
toposide is a semi synthetic antineoplastic agent derived from podophyllym peltatum.
54. AIDS  
Western Bolton test is used to diagnose AIDS.
55. Diapharm pump  
For transporting corrorine fluids diaphragm pumps used.
56. A-ii B-iii C-iv D-i
57. A-iii B-i C-ii D-iv
58. A-ii B-iv C-i D-iii
59. A-i B-iv C-ii D-iii
60. A-iv B-iii C-ii D-i
61. A-iii B-i C-iv D-ii
62. A-iv B-iii C-ii D-i
63. A-iv B-iii C-ii D-i

64. A-iii B-iv C-i D-iv
65. A-iv B-iii C-ii D-i
66. A-iv B-iii C-ii D-i
67. A-iv B-iii C-ii D-i
68. A-iv B-iii C-ii D-i
69. A-iii B-iv C-ii D-i
70. A-iv B-iii C-ii D-i
71. Presence of relatively high shielding of protons and causes to resonate at upfield.  
Tefca methyl saline highest shielding effect and resonate at higher magnetic field. Than any other compounds
72. Silican in move detho positive than the carbon and It does not withdraw elections from carbon atom and has highest shielding.
73. 5-ethyl,5-phenyl banbitinic acid.  
It is known as phenobabitone  
It has an alyl radical in position.
74. Phonobarbitone causes Gingival hyper plan a and osteomalacia as the adverse effects.
75. 3mg/hr
76. Anhydrous  $ZnCl_3$   
The method of synthesis is knpwn as Angel's method.
77. 7-chlro-1- methyl 5- phenyl 1,3 dihydro 1,4 benico diazepine 2,one  
It is known as Diazepam.
78. Azoleductase  
Sulfaralazine is metabolizd by Azoleductase
79. Sulfpyaridine + 5 aminosalicyclic acid  
Metabolite products of sulfosalazine are pyridine.  
+ 5-amino salicylic acid.

80. Suggest a suitable coating method is Enteric coating

81. Cellulose acetate phthalate is a correct coating material to be used.

