

# Industrial Pharmacy - I

B.Pharm Second Internal Examination (2020-2021)

Date: 14/08/2020

Semester: 5

Subject: Industrial Pharmacy (BP502T)

Instructions:

1. All Questions are compulsory.
2. Each questions carry 1 mark.

\* Required

1. Email address \*

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2. 1. Find out correct one for Sugar coating: \*

1 point

*Mark only one oval.*

- A. Sugar coating is the process of coating of pH sensitive polymers on tablet surface
- B. Sugar coating is involves two stage process
- C. The coating is water soluble and dissolve after swallowing
- D. All of the above

3. 2. Arrange sugar coating steps as per correct sequence: \*

1 point

*Mark only one oval.*

- A. Sub coating > Seal coating > Smoothing > Colouring > Polishing > Printing
- B. Seal coating > Sub coating > Smoothing > Colouring > Polishing > Printing
- C. Sub coating > Seal coating > Smoothing > Polishing > Colouring > Printing
- D. Seal coating > Sub coating > Smoothing > Polishing > Colouring > Printing

4. 3. The Polymers used are natural gums like shellac, acacia or cellulose derivatives like HPMC, CAP are used in which step of sugar coating? \* 1 point

*Mark only one oval.*

- A. Sub coating  
 B. Smoothing  
 C. Water proofing  
 D. Polishing

5. 4. \_\_\_\_\_ are generally added in film coating solution of tablet to decrease film brittleness. \* 1 point

*Mark only one oval.*

- A. Emollients  
 B. Diluents  
 C. Lubricants  
 D. Plasticizers

6. 5. From the following which polymer is used for Enteric coating? \* 1 point

*Mark only one oval.*

- A. HPMC  
 B. Eudragit  
 C. PVC  
 D. All of the above

7. 6. Which of the following is advantage of Sugar coating over film coating: \* 1 point

*Mark only one oval.*

- A. Weight increases 2-3 % because of coating
- B. Logo or break lines are possible
- C. Rounded edge with more elegant appearance
- D. Usually single stage process and automation

8. 7. \_\_\_\_\_ coating is an efficient method of applying coating of conductive ionic species on charged substrate. \* 1 point

*Mark only one oval.*

- A. Dip coating
- B. Vaccum coating
- C. Compressed coating
- D. Electrostatic coating

9. 8. Two tablets are stick together and mostly occur in capsule shaped tablet 1 point  
is called \_\_\_\_\_. \*

*Mark only one oval.*

- A. Twinning
- B. Sticking
- C. Picking
- D. Mottling

10. 9. Which of the following is correct remedy for sticking & picking problem during tablet coating ? \* 1 point

*Mark only one oval.*

- A. Increase in drying temperature & air volume
- B. Adjust polymer concentration and plasticizer
- C. Increase hardness of the film
- D. Use low molecular weight polymers

11. 10. Blistering is the local detachment of film from the substrate. What is the main cause of blistering? \* 1 point

*Mark only one oval.*

- A. Rapid drying
- B. High solution viscosity
- C. Excessive attrition during coating process
- D. Over heating during spraying coating solution

12. 11. Coating fills in the logo or letter on the tablet surface is called as \_\_\_\_\_ . \* 1 point

*Mark only one oval.*

- A. Blooming
- B. Blushing
- C. Bridging
- D. Blistering

13. 12. Which of the test evaluate strength of tablet other than hardness test? 1 point  
\*

*Mark only one oval.*

- A. Disintegration test  
 B. Content uniformity test  
 C. Thickness test  
 D. Friability

14. 13. Which equation used to calculate the rate of the drug dissolution from the tablet? \*

*Mark only one oval.*

- A. Henderson -Hassalbatch equation  
 B. Fick's law  
 C. Noyes Whitney equation  
 D. Stoke's equation

15. 14. In which type of Fluidized bed process bottom spraying of coating solution applied? \*

*Mark only one oval.*

- A. Wurster Process  
 B. Granulator Process  
 C. Rotor Process  
 D. None of the above

16. 15. \_\_\_\_\_ have been used to measure colour uniformity of tablet surface. \* 1 point

*Mark only one oval.*

- A. IR Spectrophotometer  
 B. DSC  
 C. Reflectance Spectrophotometer  
 D. Potentiometry

17. 16. As per BP if tablet average weight is more than 250 mg, \_\_\_\_\_ % deviation is allowed. \* 1 point

*Mark only one oval.*

- A. 2 %  
 B. 5 %  
 C. 7.5 %  
 D. 10 %

18. 17. For Film coating tablet disintegration time limit is \_\_\_\_\_ minutes. \* 1 point

*Mark only one oval.*

- A. 60  
 B. 15  
 C. 30  
 D. 120

19. 18. \_\_\_\_\_ is the USP type 4 dissolution apparatus. \* 1 point

*Mark only one oval.*

- A. Reciprocating cylinder
- B. Flow through cell
- C. Paddle over disk
- D. Reciprocating holder

20. 19. How many tablets are required for content uniformity test? \* 1 point

*Mark only one oval.*

- A. 30
- B. 20
- C. 10
- D. 25

21. 20. Friabilator is operated at \_\_\_\_\_. \* 1 point

*Mark only one oval.*

- A. 75 rpm
- B. 50 rpm
- C. 25 rpm
- D. 100 rpm

22. 21. Diclofenac tablet coated with cellulose acetate phthalate has been administered to a patient. Where do you expect the drug released? \* 1 point

*Mark only one oval.*

- A. Stomach
- B. Small intestine
- C. Oral cavity
- D. Liver

23. 22. Simple syrup USP containing \_\_\_\_\_ % sucrose in water. \*

1 point

Mark only one oval.

- A. 70 %
- B. 66.7 %
- C. 85 %
- D. 90 %

24. 23. Following is the advantage of elixirs: \*

1 point

Mark only one oval.

- A. They can be administered by pediatric patient
- B. Used for water insoluble drug may precipitate due to alcohol evaporation
- C. Hydro alcoholic vehicles can be self preservatives
- D. All of the above

25. 24. If in suspension particles size are more than 1 micron is called as \_\_\_\_\_.\*

1 point

Mark only one oval.

- A. Colloidal suspension
- B. Coarse suspension
- C. Nano suspension
- D. Micro suspension

26. 25. Breaking of an emulsion can be reversible by vigorous agitation. \*

1 point

Mark only one oval.

- True
- False



27. 26. \_\_\_\_\_ is a procedure when oil is triturated with the gum before adding in water for preparing Primary Emulsion. \* 1 point

*Mark only one oval.*

- A. English method  
 B. Wet Gum method  
 C. Trituration method  
--  D. Continental method

28. 27. What type of emulsion is a w/o/w emulsion? \* 1 point

*Mark only one oval.*

- A. Primary emulsion  
 B. Microemulsion  
 C. Multiple emulsion  
 D. Monoemulsion

29. 28. The purpose of an emulsifier is to \_\_\_\_\_. \* 1 point

*Mark only one oval.*

- A. Decrease surface area in a suspension  
 B. Reduce the interfacial tension between immiscible phase  
 C. Minimize the size of globules  
 D. Improve medication taste

30. 29. The tail of a surfactant molecule is oil-loving or known as \_\_\_\_\_? \* 1 point

*Mark only one oval.*

- A. Hydrophile  
 B. Lipophobic  
 C. Lipophilic  
 D. Hydrophilic

31. 30. Type A gelatin is mainly derived from pork skin by acid treatment. This gelatin have an isoelectrc point in the region of \_\_\_\_ . \* 1 point

*Mark only one oval.*

- A. pH 9  
 B. pH 4  
 C. pH 5  
 D. pH 13

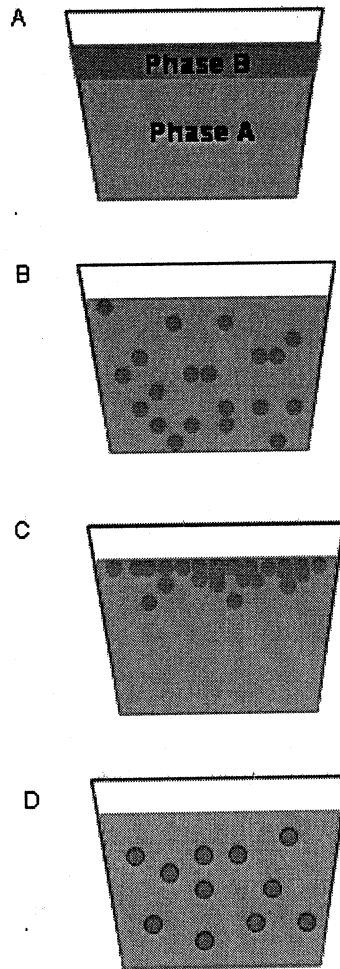
32. 31. Sedimentation is delayed by which of the following? \* 1 point

*Mark only one oval.*

- A. Increasing the viscosity  
 B. Decreasing the particle size  
 C. Both of the above  
 D. None

33. 32. The condition labelled as 'C' indicates: \*

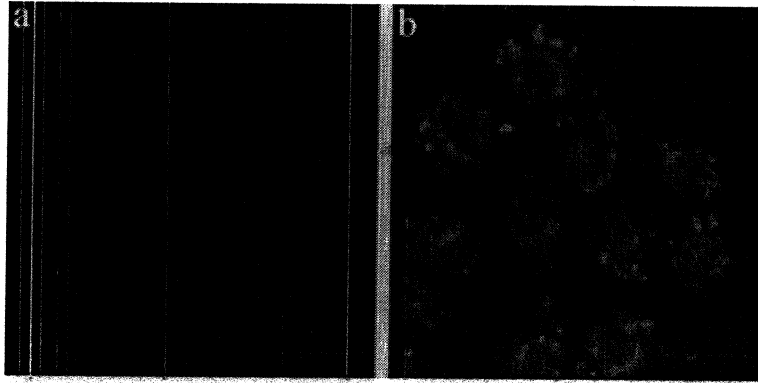
1 point



Mark only one oval.

- A. Breaking
- B. Sedimentation
- C. Creaming
- D. Flocculation

34. 33. The result observation for fluorescence test labelled as "B" indicates \_\_\_\_\_ emulsion. \* 1 point



Mark only one oval.

- A. Water-in-oil  
 B. Oil-in-water  
 C. W-o-W  
 D. O-w-O

35. 34. Capsule shell contains \_\_\_\_\_ % moisture which give flexibility and resistance to mechanical strength. \* 1 point

Mark only one oval.

- A. 18 - 20  
 B. 12 - 16  
 C. 20 -25  
 D. 7 - 12

36. 35. Volume fills in 0 size of capsule \_\_\_ ml . \* 1 point

Mark only one oval.

- A. 1.37 ml  
 B. 0.95 ml  
 C. 0.68 ml  
 D. 0.13 ml