

NIPER JEE 2026

Question Paper

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General Instructions

- (i) The examination consists of 200 multiple-choice questions (MCQs).
- (ii) Duration of the examination is 2 hours (120 minutes).
- (iii) Each correct answer carries +1 mark.
- (iv) Each wrong answer carries a penalty of -0.25 marks (negative marking).
- (v) Unanswered questions will receive 0 marks.

1. Type B gelatin is from an alkali treated precursor and has its isoelectric zone in the region of

- (A) pH 9.0
- (B) pH 4.7
- (C) pH 7.0
- (D) pH 1.2

2. The HLB value of sodium oleate is

- (A) Approx 3.0
- (B) Around 10.0
- (C) Around 18.0
- (D) Approx 40.0

3. By coating the granules with water insoluble polymer, one can achieve the release of drug

as per

- (A) Zero order rate
 - (B) First order rate
 - (C) Half order rate
 - (D) Pseudo First order rate
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4. In transdermal therapeutic systems the most commonly used penetration enhancer is

- (A) Glycerin
 - (B) Propyl Glycol
 - (C) Dimethyl sulfoxide
 - (D) Lanolin
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5. Transdermal preparations are prepared for those drugs which

- (A) Undergoes first pass metabolism
 - (B) have bigger molecules
 - (C) are costly
 - (D) are hydrophilic
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6. A sustained release products can be prepared by using

- (A) Solid dispersion technique with water soluble excipients
 - (B) Large particles delaying its disintegration
 - (C) Spray drying technique with water soluble excipients
 - (D) A good disintegrating agent
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7. The Implant of sustained release devices which are

- (A) Introduced into tissues
 - (B) taken orally
 - (C) Used in place of suppository
 - (D) Placed on the skin to release the drug
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8. The release of drug from cellulose acetate phthalate is due to

- (A) pH independent solubility
 - (B) pH dependent solubility
 - (C) Release of drug due to erosion
 - (D) Zero order release
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9. Methyl cellulose dissolves better in

- (A) Cold water
 - (B) Hot water
 - (C) Soft paraffin
 - (D) Glycerin
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10. In pharmaceutical dosage forms for external application, the glycerin is used as

- (A) Therapeutic agent
 - (B) Humectant
 - (C) Surface active agent
 - (D) antiseptic
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11. Aerosil is a pharmaceutical excipient and it is also called

- (A) Spray drying lactose
 - (B) Calcium sulphate
 - (C) Colloidal silica
 - (D) HPMC
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12. India was officially struck off the list of polio-endemic countries by the World Health Organization (WHO)

- (A) 25 December, 2012
 - (B) 15 February, 2012
 - (C) 25 January, 2012
 - (D) 25 February, 2012
-

13. After the birth which of the following vaccine given primarily to the infant

- (A) BCG
 - (B) OPV zero
 - (C) Hepatitis B - 1
 - (D) All
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14. Drug protein binding can be determined by

- (A) Chromatography
 - (B) Dialysis
 - (C) Phase separation
 - (D) Langmuir's method
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15. Shock organ in anaphylaxis is

- (A) Liver
 - (B) Lung
 - (C) Kidney
 - (D) Spleen
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16. S.I. unit of Temperature

- (A) Second
 - (B) Kelvin
 - (C) °C
 - (D) °F
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17. Ceruloplasmin refers to

- (A) 2 globulin
 - (B) 1 globulin
 - (C) 1 globulin
 - (D) globulin
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18. Angle of repose for free flowing powder is

- (A) Less than 20°
 - (B) less than 40°
 - (C) Above 50°
 - (D) above 80°
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19. Current chairman of IPC

- (A) Ms. Punya Salila Srivastava
 - (B) Dr. B Mukherjee
 - (C) Dr. Nityanand
 - (D) PK Pradhan
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20. In Which year parliament enacted national institute of Pharmaceutical education

- (A) 1994
 - (B) 1996
 - (C) 1998
 - (D) 2001
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21. Cobalt containing vitamin is

- (A) Vitamin B1
 - (B) Vitamin B2
 - (C) Vitamin B6
 - (D) Vitamin B12
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22. Which of the following pairs is not correctly matched?

- (A) Vitamin B3 - Pellagra
 - (B) Vitamin B12 - Pernicious anaemia
 - (C) Vitamin C - scurvy
 - (D) Vitamin B6 - Beriberi
-

23. Invert sugar is

- (A) Dextrorotatory
 - (B) Laevorotatory
 - (C) Racemic mixture
 - (D) Optically inactive
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24. HLB of wetting spreading agent is

- (A) 3.5-6
 - (B) 4-10
 - (C) 7-9
 - (D) 8-18
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25. Protein binding of a drug causes

- (A) longer acting
 - (B) increased efficacy
 - (C) shorter acting
 - (D) decreased efficacy
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26. Lecithin in shampoos is used as.....

- (A) conditioning agent
 - (B) foaming agent
 - (C) viscosity enhancer
 - (D) preservative
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27. Sodium and potassium oleates favors the formation of

- (A) O/W emulsion
 - (B) W/O emulsion
 - (C) Both a and b
 - (D) Microemulsion
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28. Plug flow problem is arises in which viscometer?

- (A) Cone and plate
 - (B) Falling sphere
 - (C) Cup and bob
 - (D) Ostwald
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29. Hausners ratio = ————— / bulk density

- (A) Tapped density - bulk density
 - (B) Bulk density - tapped density
 - (C) Tapped density
 - (D) True density
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30. Zymogen is the

- (A) Nucleic acid
 - (B) Active protein
 - (C) Inactive protein
 - (D) Vitamins
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