- 1. Which one of the following is **not** applicable to **4**. non-linear pharmacokinetics ?
 - (a) The elimination or absorption half-lives change as doses are increased.
 - (b) The area under the curve (AUC) increase in a proportional manner to the administered dose.
 - (c) The composition and/or ratio of the metabolites of a drug may be affected by a change in the dose.
 - (d) Elimination or absorption of drug does not follow simple first-order kinetics.
- 2. Presystemic metabolism :
 - 1. Occurs in liver as first-pass metabolism.
 - 2. Occurs in intestine and its walls.
 - 3. Occurs when drug is administered transdermally or by inhalation.
 - 4. Results in decrease in bioavailability.

Select the correct answer using the code given below :

- (a) 1, 2 and 4
- (b) 1, 3 and 4
- (c) 1, 2 and 3 ^r
- (d) 2, 3 and 4 🌂
- 3. An IV dose of 500 mg is administered to a patient. It was observed that 70% of the dose was recovered unchanged in the urine. The AUC (area under the curve) was found to be 362 mg.hr/L. What will be the total clearance rate (TCR), metabolic clearance rate (MCR) and renal clearance rate (RCR)?
 - (a) TCR = 23 mL/min.; RCR = $16\cdot1$ mL/min.; MCR = $9\cdot2$ mL/min.
 - (b) TCR = 63 mL/min.; RCR 44.1 mL/min.; MCR = 8.1 mL/min.
 - (c) TCR = 23 mL/min.; RCR 16.1 mL/min.; MCR = 6.9 mL/min.
 - (d) TCR = 46 mL/min.; RCR 32.2 mL/min.; MCR = 13.8 mL/min.

KLOS-F-PHRM

(2 - D)

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=

=

5.

- Which of the following statements are **not** correct regarding dissolution testing of solid dosage forms ?
 - 1. Dissolution tests are used to aid formulation development, check product quality and performance and to assess batch-to-batch quality of a drug with respect to drug product specifications.
 - 2. Dissolution test conditions are not selected based on properties of the drug and the type of drug form.
 - 3. Dissolution is often the rate-limiting step in the absorption of drugs with poor water solubility.
 - Dissolution cannot be correlated to oral bioavailability whilst disintegration of dosage form is a strong indicator of oral bioavailability.

Select the correct answer using the code given below :

- (a) 1 and 3 only
- (b) 1 and 2 only
- (c) 2 and 4 only \cdot
- (d) 1 and 4 only
- Which one of the following is *not* correct for dosage forms prepared using protein based drugs?
 - (a) Trehalose and sucrose are ineffective in preventing protein denaturation
 - (b) Low pH, i.e. pH 3 6 prevents chemical degradation
 - (c) Cyclization of proteins makes them less susceptible to gut amino and carboxy peptidases
 - (d) Metal chelating agents can be used to enhance the stability

6. Which one of the following represents the correct sequential arrangement in a transdermal patch (rate-limiting membrane-type) from top to bottom ?

(BL = backing layer; DR = drug reservoir; AD = adhesive; RRL = removable release liner; RLM = Rate-limiting membrane)

 $(a) \quad BL \to AD \to DR \to RLM \to RRL$

- (b) $BL \rightarrow RLM \rightarrow AD \rightarrow DR \rightarrow RRL$
- (c) $BL \rightarrow DR \rightarrow RLM \rightarrow AD \rightarrow RRL$
- (d) $BL \rightarrow RRL \rightarrow DR \rightarrow RLM \rightarrow AD$
- 7. Inhalation aerosols should have particles which are :
 - (a) Porous with large physical diameter and small aerodynamic diameter
 - (b) Porous with small physical diameter and large aerodynamic diameter
 - (c) Non-porous with large physical diameter and small aerodynamic diameter
 - (d) Non-porous with small physical diameter and large aerodynamic diameter
- 8. In 2015, the formulation "Spritam" approved by US FDA, is a :
 - (a) 3D printed fast dissolving tablet
 - No. 3D printed transdermal patch
 - (c) 3D printed delayed release oral dosage form
 - (d) 3D printed repeat action oral dosage form

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Which one of the following statements regarding pharmaceutical powders is *not* correct?

- (a) Hygroscopic powders absorb moisture from the air.
- (b) Deliquescent powders absorb moisture from the air and partially or wholly liquefy.
- Efflorescent powders absorb moisture from the air and form water molecules of hydration or crystallization.
- (d) Eutectic powders, upon mixing, become sticky or pasty or liquefy.
- 10. Which one of the following vehicles cannot be used for injection of drugs parenterally ?
 - (a) Mineral oil
 - (b) Corn oil
 - Sesame oil
 - (d) Castor oil
- 11. Capsules are available in various sizes (1, 2, 3, 4, 5, 000, 00E, 00, 0 and 0E) for human administration. Which of the following statements regarding capsule size is/are correct?
 - P. "000" is the largest capsule size.
 - Q. "5" is the smallest capsule size.
 - R. "0" is the smallest capsule size.
 - S. "5" is the largest capsule size.
 - T. "000" is the smallest capsule size.

Select the correct answer using the code given below :

- (a) S and T
- (b) P and Q
- (c) R and S
- (d) P and R

(3-D)



- 12. 10 suppositories containing 300 mg acetaminophen have to be prepared using cocoa butter. Average weight of the blank cocoa butter suppository is 2 g and the average weight of medicated suppository is 1.8 g. What will be the actual weight of cocoa butter required to prepare the suppositories ?
 - (a) 18.0 g
 - (b) 15-0 g
 - (c) 18.6 g
 - (d) 15.6 g
- 13. Microemulsions have droplets in the size range of :
 - (a) 100 Å to 5000 Å
 - (b) 100 Å to 1000 Å
 - ★ 1000 Å to 5000 Å
 - (d) 5000 Å to 10000 Å

14. Which one of the following is the best technique to sterilize thermolabile and moisture-sensitive materials?

- (a) Filtration sterilization 🌱
- He Gas sterilization
- (c) Dry heat sterilization τ
- (d) Steam sterilization 🔫
- 15. Diffusion is facilitated in suspensions via Brownian movement when the suspensions are:
 - (a) **Deflocculated** with particle size in sub-micrometre range
 - (b) Deflocculated with particle size in macrometre range
 - (c) Flocculated with particle size in sub-micrometre range
 - (d) Flocculated with particle size in macrometre range

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- 16. Medical devices under the Medical Devices Rules, 2017 have been classified in which of the following classes ?
 - (a) Class 1, Class 2, Class 3, Class 4
 - (b) Class O, Class P, Class Q, Class R
 - (c) Class A, Class B, Class C, Class D
 - (d) Class I, Class II, Class III, Class IV
- 17. Application for manufacture of cosmetics for sale/distribution is required to be made to the State Licensing Authority in : _____
 - (a) Form COS-3
 - (b) Form COS-5
 - (c) Form COS-6
 - (d) Form COS-7
- 18. The premises licensed for manufacturing cosmetics shall be inspected by Inspector appointed by the Central Government and State Government to verify the conditions of licence not less than :
 - (a) Once in a year
 - (b) Once in two years
 - (c) Once in three years
 - (d) Once in four years

(4 - D)

21.

- 19. Penalty for offences committed without obtaining a valid licence for manufacture and sale of drugs under the Drugs and Cosmetics Rules shall be **not** less than :
 - 1. One year
 - 2. Two years
 - 3. Five years
 - Three years

and fine which shall not be less than :

- (i) ₹ 50,000
- (ii) ₹ 2,00,000
- (iii) ₹ 1,00,000
- (iv) ₹ 3,00,000

Select the correct answer using the code given below : 22.

- (a) 1, (ii)
 (b) 2, (i)
 (c) 3, (iv)
 (d) 4, (iii)
- 20. To maintain perpetuity of a licence to manufacture drugs, application for its continuation is required to be made within :
 - (a) 3 years
 - (b) 2 years
 - to 5 years
 - (d) 7 years

An Indian pharmaceutical company wants to market a fixed dose combination (FDC) of two drugs for an indication for which those drugs are already approved and given together **not**, as an FDC, but individually at same doses. What will be the data requirement for marketing permission?

- (a) Marketing data to be submitted will be similar to data required for any new drug including clinical trials.
- (b) Chemical and pharmaceutical data as well as data on animal toxicology of new combination will be required.
- (c) Available data on pharmacological, toxicological, clinical data on the individual ingredients along with animal toxicity and pharmacological data of new combination should be submitted.
- (d) Chemical and pharmaceutical data as well as data showing the stability of the proposed dosage form should be submitted.

Which one of the following Schedules of Drugs and Cosmetic Rules, 1945 lists the requirements for the functioning and operation of a blood bank and/or for preparation of blood components?

- (a) Schedule D
- (b) Schedule F
- (c) Schedule M
- (d) Schedule R
- 23. All of the following statements categorize the drug to be spurious *except* :
 - (a) If it is manufactured under a name which belongs to another drug.
 - (b) If it bears or contains, for the purpose of colouring only, a colour other than which is prescribed.
 - (c) If its label bears the name of a company which does not exist.
 - (d). If it is substituted in part by another drug.
- (5–D)

- 24. Which one of the following statements regarding Phase II clinical trials is correct?
 - (a) Phase II studies are called 'Pivotal Trials'.
 - (b) Phase II study is primarily done to determine the toxicology and pharmacokinetics of the test drug.
 - (c) Phase II study is the first controlled clinical study done to determine efficacy and safety in patients.
 - (d) Phase II study begins with the submission of a New Drug Approval.
- 25. Which one of the following procedures may be preferred by FDA to speed up the drug development process for drugs that are used to treat both serious and less serious diseases so that there are major advances in treatment or provide a treatment where no adequate therapy exists ?
 - (a) Fast Track
 - (b) Accelerated Approval
 - (c) Priority Review
 - (d) "Breakthrough Therapy" designation
- 26. Consider the following statements regarding active drug transport :
 - 1. Transport of drug depends on concentration gradient.
 - 2. Transport requires energy.
 - >3. The process is capacity limited.
 - 4. The rate is slower than passive transport.

Which of the statements given above are correct?

- (a) 1, 2 and 3
- (b) 2, 3 and 4
- (c) 2 and 3 only
- (d) 3 and 4 only
- 27. The increasing order of absorption from the available dosage form are :
 - (a) Capsule, suspension, emulsion, solution
 - (b) Suspension, capsule, emulsion, solution
 - (c) Emulsion, suspension, capsule, solution
 - (d) Solution, capsule, emulsion, suspension

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28. Which one of the ionowing statements is correct for Level B correlation in *in vitro* – *in vivo* correlation (IVIVC)?

- (a). It is a single point-to-point correlation between a dissolution parameter such as percent drug dissolved and percent drug absorbed.
- (b) It involves convolution and deconvolution techniques.
- (c) Level B correlation alone can justify formulation modification and manufacturing site change.
- It is a comparison between mean in vitro dissolution time and mean residence time or mean in vivo dissolution time as per the statistical moment theory.
- 29. Which one of the following properties is **not** exhibited by Narrow Therapeutic Index (NTI) drugs or critical dose drugs ?
 - (a) Difference between the minimum toxic plasma concentration and minimum effective dose concentration is very low.
 - (b) Require therapeutic monitoring based on pharmacokinetic or pharmacodynamic measures.
 - (c) Possess very high within-subject variability.
 - (d) Sub-therapeutic concentrations lead to serious therapeutic failure.
- **30.** Which one of the following is correct for drugs administered via extravascular route, at C_{max} (maximum plasma concentration)?
 - Rate of drug absorption is equal to the rate of drug elimination
 - (b) Rate of drug elimination is higher than the rate of drug absorption
 - (c) Rate of drug absorption is higher than the rate of drug elimination
 - (d) Rate of drug absorption is zero

(6 - D)

| | | Visit: https:/p | harmacyir | ndia.co.in | |
|---------|---|--|-----------|------------------|--|
| 31. | Sepa acco | aration of ions in Mass spectrometer is rding to their : | 37. | in | ch one of the following materials is used construction of Attenuated Total |
| | (a) | Charge to mass ratio | | Refle | ectance (ATR) cells ? |
| | (to) | Mass to charge ratio | | (a) | Germanium |
| | (c) | Electron to proton ratio | | (b) | Sodium chloride |
| | (d) | Proton to neutron ratio | | (c) | Potassium bromide |
| | | | | (d) | Potassium chloride |
| 32. | Which one of the following plants is the major source for reserpine ? | | 38. | | Which one of the following is a reasonable |
| | (a) | Gelsemium sempervirens | | inter | |
| | (b) | Catharanthus roseus | | | roscopic studies of solutions in water of |
| | (c) | Colchicum autumnale | | D ₂ O | |
| | 167 | Rauwolfia serpentina | | 1. C | Tetramethylsilane (TMS) |
| | | | 15 | (b) | Silicone grease |
| 33. | Whie | ch one of the following chemicals is used | | (c) | Silicon dioxide |
| | in th | e preparation of Dragendorff's reagent? | | (d) | Sodium 2,2-dimethyl-2-silapentane-5- |
| | (a) | Picric acid | | | sulphonate (DSS) |
| | (b) | Iodine in potassium iodide | 39. | Merc | aptoacetic acid in a solution buffered |
| 8 | The? | Potassium bismuth iodide | | with | ammonium citrate reacts to form a |
| | (d) | Potassio-mercuric iodide | | purp | le coloured complex with : |
| 0007074 | | the for a start with a for assay of | | tal | Arsenic |
| 34. | Prec | ision of an analytical method for assay of s in formulation within laboratory | | (3) | Lead |
| | 2000 | itions like different days, different | | (c) | Mercury |
| | | ysts, etc. is expressed as : | | (d) | Iron |
| | (a) | Repeatability | 40. | What | t will be the retention factor of an analyte |
| | ~(b) | Reproducibility | 40. | analy | yzed by HPLC, if its retention time is |
| | (c) | Robustness | | 8.0 n | ninutes and retention time of unretained |
| | (d) | Intermediate Precision | | peak | is 2.0 minutes ? |
| | | | | (a) | 2.0 |
| 35. | Whi | ch one of the following detectors is | | (b) | 3.0 |
| | | monly used in FT-IR spectrophotometry ? | | (c) | 6.0 |
| | (a) | Thermocouple | | (d) | 8.0 |
| | (b) | Pyroelectric detector | | 11714 | will be the concentration of |
| | (c) | Golay-pneumatic detector | 41. | What | vitestosterone solution in ethanol if its |
| | ~(d) | Photomultiplier tube | | absor | bance in 1 cm cell at 241 nm was found |
| 36. | The | non-aqueous solvent dimethyl formamide | | to be | 0.890 ? |
| | (DMF) belongs to which one of the following | | | (the | A (1%, 1 cm) of methyltestosterone is |
| | class | ses of solvents ? | 5 | 540 a | t 241 nm) |
| | (a) | Aprotic | | (a) | 0·020 g/100 mL |
| | (1) | Amphiprotic | | (b) | 0·010 g/100 mL |
| | (c) | Protogenic | | (c) | 0·001 g/100 mL |
| | (d) | | | (d) | 0·100 g/100 mL |
| | (4) | Protophilic | 5.V | | |

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(7-D)

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|-----------------------------------|--|--|-----|---|--|
| 42. | In an assay of ferrous sulphate by titration 46. Which one of the following does not provide | | | | |
| | against ceric sulphate using ferroin as an | | | | ive immunity ? |
| | inter | internal redox indicator, a red colour of | | (a) | Inactivated micro-organisms |
| | solut | tion in titration vessel before end point is | 24 | Tor | Humanized monoclonal antibodies |
| | due to : | | | (c) | Natural mother antibody transferred to |
| | Yal | (a) 1,10-phenanthroline ferric ion complex | | | foetus |
| | (b) | 1,10-phenanthroline ferrous ion complex | | (d) | Antitoxin 🔔 |
| | (c) | Oxidation product of ferrous sulphate | 47. | Cons | ider the following vaccines : |
| | (d) | | | 1. | DNA vaccine |
| | (4) | Reduction product of ceric sulphate | | 2. | mRNA vaccine |
| | | | | 3. | Live attenuated vaccine |
| 43. | Head | d space gas chromatographic analysis is a | | 4. | Inactivated vaccine |
| | very effective technique for the analysis of : | | | | correct order of stability of vaccines given e is : |
| | (a) | Non-volatile compounds | | (a) | 1>3>4>2 |
| | (102 | Mixture of volatile compounds | | (b) | 2>4>3>1 |
| | (c) | Non-volatile compounds in presence of | | (c) | 1>4>3>2 |
| | | high proportion volatile compounds | | (d) | 2 > 3 > 4 > 1 |
| | (d) | Volatile compounds in presence of high | | | |
| | | proportion non-volatile compounds | 48. | | ch one of the following Human Leukocyte |
| | | | | Anti | gens (HLA) encodes for major ocompatibility complex-II ? |
| | | | | (a) | HLA-A |
| 4 4. | Iodia | ne value of oils and fats is a measure of : | | (a) (b) | HLA-B |
| | (a) | Average molecular weight of fatty acids | | (b) (c) | HLA-C |
| | -(b) | Degree of unsaturation present in fatty | | (d) | HLA-D |
| | | acids | | | |
| | (c) | Free fatty acids | 49. | Whi | ch one of the following clotting factors |
| | (d) | Unsaponifiable matter | | does not require vitamin K during blo coagulation process? | |
| | (u) | Unsapoliniable matter | | (a) | Factor IX |
| | | | | (b) | Factor V |
| 45. | In an assay of boric acid by aqueous acid-base titration, glycerin is added : | | | (c) | Factor VII |
| | | | | (d) | Factor X . |
| | (a) | To dissolve boric acid | 50. | Whi | ch one of the following proteins is mainly |
| | (b) | To enhance the strength of boric acid | | resp | onsible for binding with drugs in plasma? |
| | | | | (a) | Apolipoproteins |
| | (c) To su | To suppress the ionization of boric acid | | (b)- | Albumin |
| ~ | -(d) | To prevent precipitation of reaction | | (c) | Transferrin |
| | | product of titration | | (d) | Immunoglobulin G |
| KI O | S-F. DI | HRM (a | D) | | |
| NLU | KLOS-F-PHRM (8 – D) | | | | |

- 51. Which one of the following methods is **not** 54. used for the separation of plasma proteins ?
 - No. Flow cytometer
 - (b) Precipitation by salting out technique
 - (c) Ultracentrifugation <
 - (d) Electrophoresis 🗸
- 52. Match the List I with List II and select the correct answer using the code given below the lists :

| List I | | | | List II | | | | |
|-----------------------|-------------------------------------|-------|------|---|--|--|--|--|
| (Type of Globulin) | | | | (Function) | | | | |
| | High den lipoprotei | 17 T | . 1. | Carries triglycerols from liver to adipose tissue | | | | |
| 10 Con 19 Vill | Low dens lipoprote | | 2. | Collects cholesterol from body tissues and brings it back to liver | | | | |
| C. | V <mark>ery low</mark> lipoprote | | y 3. | Involved in cell-cell interactions | | | | |
| D. | Glycopro | teins | 4. | Carries cholesterol from liver to cells of the body | | | | |
| Code : | | | | | | | | |
| | A | в | С | D | | | | |
| (a) | 2 | 4 | 1 | 3 | | | | |
| (b) | 3 | 1 | 4 | 2 | | | | |
| (c) | 2 | 1 | 4 | 3 | | | | |
| (d) | 3 | 4 | 1 | 2 | | | | |

53. The level of mercury as preservative in the cosmetics intended for use only in the area of eye should **not** exceed :

(calculated as metal)

- √€) 0.005%
- (b) 0.007%
- (c) 0.009%
- (d) 0.010%

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(9 - D)

An applicant for grant of retail license in Form 20 or Form 21 or both is required to provide the premises which are in area **not** less than :

n. .

- (a) $8 m^2$
- $(b) 10 \text{ m}^2$
 - (c) 12 m^2
- (d) 15 m^2
- 55. The permitted synthetic organic/natural organic colours used in the cosmetics shall **not** contain more than :
 - (a) 1 ppm of arsenic, 10 ppm of lead and 50 ppm of heavy metals other than lead
 - (b) 4 ppm of arsenic, 30 ppm of lead and 200 ppm of heavy metals other than lead
 - (c) 2 ppm of arsenic, 20 ppm of lead and 100 ppm of heavy metals other than lead
 - (d) 2 ppm of arsenic, 25 ppm of lead and 150 ppm of heavy metals other than lead

56. Toothpastes containing fluoride should not contain fluoride more than :

- (a) 500 ppm
- (b) 1000 ppm
- (c) 2000 ppm
- (d) 3000 ppm

57. Application for licence to manufacture drugs other than those specified in Schedules C and C(I) shall be made to the Licensing Authority of the State in :

- (a) Form 24B
- (b). Form 24
- (c) Form 24F
- (d) Form 24D

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Get Latest Pharma Private/ Govt. Job updates | Download B. Phama/ D. Pharma University Exam Papers | Previous Pharmacist/ DI/ GPAT/ NIPER Papers | Pharma News Updates | D. Pharma Notes | Pharmacy College Informations | Pharma Industry Updates Visit: https:/pharmacvindia.co.in Licenses for retail sale of drugs other than Which one of the following is used for 61. Schedule X are issued by the State Licensing calibration of absorbance scale of UV-Via Authority in : spectrophotometer? (which require services registered pharmacist) Potassium chloride solution (a) (a) Form 20, 21 Potassium chromate solution (b) (b) Form 20B, 21B Holmium perchlorate solution (c) Form 20F. 20G (e) (1) Form 20A, 21A Potassium dichromate solution Fall 59. The drugs specified under which of the following schedules to the Drugs and Which one of the following is not an example Cosmetics Rules, 1945 will not be sold by 62. retail except on and in accordance with the of utility software? prescription of a Registered Medical Antivirus (a) Practitioner : 1 Schedule U (b) WinZip ~ 2 Schedule Y Google Chrome (ch_ 30 Schedule H **Disk Defragmenter** (d) 4 Schedule H1 5 Schedule X Select the correct answer using the code given 63. Which one of the following programming below : languages is used to develop an android (a) 3 and 4 only application for mobile device ? Yb) 3, 4 and 5 Python (a) 1, 2 and 3 (c) 2, 3, 4 and 5 (d) (b) C The medical devices shall conform to the 60. tel Java standards laid down by the : (d) C++ WHO 1. 2. US FDA Which one of the following symbols represents Bureau of Indian Standards (BIS) 64. 3. the data flow in motion, used in data flow ISO/IEC/Pharmacopoeial standards 4. diagram (DFD)? where BIS standards are not available Select the correct answer using the code given Open-ended box (a) below : Square (b) 1 and 2 only (a) 1, 3 and 4 (b) Circle (c) 2 and 3 only (c) (d)_ Arrow Tel ! 3 and 4 only (10 - D)KLOS-F-PHRM (pharmacyindia.co.in | pharmacyindia24@gmail.com | (C) 8171313561, 8006781759

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58. Licenses for retail sale of drugs other than Schedule X are issued by the State Licensing Authority in :

(which require services of registered pharmacist)

- (a) Form 20, 21
- (b) Form 20B, 21B
- (c) Form 20F, 20G
- (d) Form 20A, 21A
- 59. The drugs specified under which of the following schedules to the Drugs and Cosmetics Rules, 1945 will not be sold by retail except on and in accordance with the prescription of a Registered Medical Practitioner :
 - 1. Schedule U
 - 2. Schedule Y
 - 3. Schedule H
 - 4. Schedule H1
 - 5. Schedule X

Select the correct answer using the code given below :

- 3 and 4 only (a)
- (b) 3.4 and 5
- (c) 1, 2 and 3
- (d) 2, 3, 4 and 5

The medical devices shall conform to the 60. standards laid down by the :

- 1. WHO
- 2 US FDA
- 3. Bureau of Indian Standards (BIS)
- 4. ISO/IEC/Pharmacopoeial standards where BIS standards are not available

Select the correct answer using the code given below :

- (a) 1 and 2 only
- 1, 3 and 4 (b)
- (c) 2 and 3 only
- Nd) 3 and 4 only

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- Which one of the following is used for 61. calibration of absorbance scale of UV-Vis spectrophotometer ?
 - Potassium chloride solution (a)
 - Potassium chromate solution (b)
 - Holmium perchlorate solution (c)
 - Potassium dichromate solution (d)
- 62. Which one of the following is not an example of utility software?
 - (a) Antivirus
 - (b) WinZip ~
 - Coogle Chrome
 - (d) Disk Defragmenter

Which one of the following programming languages is used to develop an android application for mobile device ?

- (a) Python
- (b) C

63.

- tel Java (d) C++
- Which one of the following symbols represents 64. the data flow in motion, used in data flow diagram (DFD) ?
 - (a) Open-ended box
 - (b) Square
 - (c) Circle
 - (d). Arrow

(10 - D)

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| 65. | cont | puter system ? Antivirus Application software Compiler | 69. | Which one of the following is the synonym of the word written in capitals in the sentence : "The invaders who constantly raided India in the past and pillaged it were infamous for their RAPACITY"? (a) Greed (b) Criminality |
|-----|---------------|---|--------|--|
| | 197 | System software | | (c) Exaggeration |
| 66. | mato the I | ch one of the following performs the ching of dom <u>ain names to IP addresses in</u> internet services ? | 70. | Which one of the following is the antonym of the word written in capitals in the sentence : "The impoverished children in the charitable school were treated to a SCRUMPTIOUS |
| | Ye) | HTTP | | meal by the local administration on |
| | (b) | URL | | Independence Day"? |
| | (c) | DNS | | (b) Appetizing |
| | (d) | HTML DE A P | | (c) Hearty (d) Scanty |
| 67. | Whie | ch one of the following statements | 71. Co | Consider the following jumbled words : / himself / who / knows / <u>succeeds</u> / <u>he</u> / |
| | rega | rding Anti-spyware software is correct? | | A B C D E |
| | (a) | It edits the files to become not readable. | | Which one of the following order of words |
| | (b) | It is used to analyse the network traffic. | | creates a meaningful sentence ? |
| | (c) | It scans all files before they are installed in the computer system. | | (b) EACBD ≓ (c) DCABE • (d) EBCAD • |
| | ~4Q | It detects and removes all the programs installed illegally in the computer system. | 72. | Consider the following jumbled words : $\frac{1}{Perfection} / \frac{Perfection}{B} / \frac{Perfection}{C} / \frac{Perfection}{B} / \frac{Perfection}{C} / \frac{Perfection}{E} / Perfect$ |
| 68. | Whie | ch one of the following is <i>not</i> a threat to | | D E Which one of the following order of words |
| | | r security ? | | creates a meaningful sentence ? |
| | (a) | Denial of service ~ | | (a) CBDAE |
| | (b) | Phishing 🥆 | | (b) ACDEB |
| | (0) | RSA | | (d) EDCBA |
| | (d) | Malware 🚤 | I | |
| KLO | S-F-P | HRM (11 | -D) | |

76.

Tal

Ha)

(c)

- **73.** Which one of the following parts of the sentence, 'It is widely acknowledged by general census that whereas failure is the stepping stone to success, successive failures are not successive stepping stones to success' has an error ?
 - (a) It is widely acknowledged by general census
 - (b) that whereas failure is the stepping stone
 - (c) to success, successive failures are not
 - (d) successive stepping stones to success
- 74. Which one of the following parts of the sentence, "The visiting students who had just arrived in Srinagar decided that they would circumnavigate around the Dal Lake the following day' has an error ?
 - The visiting students who had just arrived
 - (b) in Srinagar decided that they would
 - (c) circumnavigate around the Dal Lake
 - (d) the following day
- **75.** Which one of the following is the most appropriate meaning of the idiom 'Break a leg'?
 - (a) To play a practical joke
 - (b) To dance happily
 - To be violent with someone
 - (d) To wish someone luck

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Acid-base indicator (d) Which one of the following is an example of 77. aminoglycoside antibiotic ? Streptomycin (a) Clavulanic acid (b) Cefaclor (c) Azithromycin (d) Which one of the following is an example of 78. reverse transcriptase inhibitor? Acvelovir (a) Cytarabine (b) Idoxuridine (c) Zidovudine (d) Reactive intermediate in S_N1 reaction is : 79. (a) Carbene Carbanion (b) Free radical (e) Carbocation (d) Parameter that indicates polarity of a solvent 80. is: **Dissociation constant** (a) Dielectric constant (b) Boiling point (c) Freezing point (d) 81. Vitamin B consists of which one of the following ring systems ? **Pyridine** (a)

Eriochrome Black T 18 :

Natural indicator

Redox indicator

Metallochrome indicator

- (b) Piperidine
- (c) Pyrimidine
- (d) Pyridazine
- 82. Nitric oxide is biosynthesized from :
 - Tal. L-Citrulline
 - (b) L-Glycine
 - (c) L-Arginine
 - (d) L-Tyrosine
- 83. Chemical structure of <u>Timolol</u> has which of the following heterocycles ?
 - (a) Morpholine and Thiadiazole
 - (b) Morpholine and Triazole
 - (c) Piperidine and Imidazole
 - (d) Pyridine and Morpholine

^{(12 –} D)

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|-----|---------------------------------------|---|-----|----------------|---|
| 84. | 1.0071 - 510 | obarbitone is the active metabolite of : Phenytoin | 91. | | ch one of the following antiarrhythmic |
| | (a) | | | | gs produces brief therapeutic action and |
| | (b) | Primidone | | tran | sient adverse effects ? |
| | (c) | Phenoxybenzamine | 1 | Tan | Diltiazem |
| | (d) | Phenylephrine | | (b) | Propafenone |
| 85. | Benz | hydryl bromide is the starting material | | (c) | Esmolol |
| | for th | he synthesis of : | | | |
| | (a) | Diphenhydramine | | (d) | Adenosine |
| | (b) | Diclofenac | | | |
| | tel | Diphenylhydantoin | | | |
| | (d) | Dipyridamole | 92. | Whi | |
| | SI -R | | | rega | rding Succimer is most appropriate? |
| 86. | Thyr | oxine can be synthesized from : | | (a) | It produces less toxicity than |
| | (a) | L-Tryptophan | - | (a) | Dimercaprol. |
| | (b) | L-Tyrosine | | | Dimercapion. |
| | (c) | L-Proline | | (tb) | It is ineffective orally. |
| | (d) | L-Phenylalanine | | (c) | It is effective for treatment of iron |
| | (0) | | | (\mathbf{C}) | poisoning. |
| 87. | Roch | elle salt is : | | | |
| | Ma) | Potassium sodium tartrate | | (d) | It is contraindicated for use in children. |
| | (b) | Silver nitrate | | | |
| | 100 | Sodium thiosulphate | | | |
| | (c) | Potassium chloride | 93. | Whie | th one of the following monoclonal |
| | (d) | | | antik | odies is specific for RANKL and is |
| 88. | 2.6-X | Xylidine is the reactant for the synthesis | | | ated for treatment of postmenopausal |
| 00. | of : | | | wom | en with osteoporosis ? |
| | Tat | Benzocaine | | (a) | Eculizumab |
| | (b) | Procaine | | | |
| | (c) | Lidocaine | | (b) | Palivizumab |
| | (d) | Cinchocaine | | Tel | Ranibizumab |
| | 1.00.00 | L l'and can be calculated | | (d) | Denosumab |
| 89. | λ_{max} | for conjugated dienes can be calculated | | (u) | Denostinas |
| | by w | hich one of the following rules/law ? | | | |
| | (a) | Woodward's rule | 94. | Whic | h one of the following is the mechanism |
| | (b) | Beer-Lambert law | 01. | of ac | tion of bisphosphonates in the treatment |
| | (c) | Saytzeff's rule Markovnikov's rule | | | teoporosis ? |
| | (d) | And a construction | | | |
| 90. | Thal | idomide, previously banned for its | | (a) | Increasing the osteoid formation |
| | | | 1 | (b) | Decreasing the osteoclast mediated bone |
| | market for which one of the following | | | | resorption |
| | uses | 2 | - | | |
| | (a) | Sedative hypnotic | | (c) | Increasing the mineralization of osteoid |
| 62 | (b) | Anticonvulsant | | (d) | Decreasing the parathyroid hormone |
| 33 | (c) | Lepra reactions | | | secretion |
| | (d) | Antibiotic | | | |
| | | (13 | -D) | | |

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99.

- **95.** Which one of the following immunosuppressant agent does *not* cause bone marrow suppression as one of its adverse effects ?
 - (a) Azathioprine
 - (b) Cyclosporine
 - (c) Sirolimus
 - (d) Methotrexate

96. Which one of the following anti-diabetic drugs is mainly given to control postprandial hyperglycemia in type 2 diabetics ?

- (a) Metformin
- (b) Pioglitazone
- (c) Nateglinide
- The Dapagliflozin

97. Which one of the following anti-diabetic medicine undergoes metabolism by Cytochrome P450 enzymes and has drug interactions with Rifampicin ?

- (a) Acarbose
- (b) Metformin
- (c) Pioglitazone
- (d) Sitagliptin

98. All of the following drugs act by stimulating Glucagon-like peptide-1 (GLP-1) receptor and are useful for treatment of type 2 diabetes *except*:

- (a) Exenatide
- (b) Repaglinide
- (c) Liraglutide
- Dulaglutide

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Pegvisomant is used for treatment of which one of the following clinical conditions ?

- (a) Infertility
- (b) Pituitary dwarfism
- (c) Acromegaly
- (d) Turner syndrome
- 100. Which one of the following drugs is *not* commonly combined with Methotrexate for the treatment of Rheumatoid Arthritis?
 - (a) Sulfasalazine
 - (b) Leflunomide
 - (c) Azathioprine
 - (d) Chloroquine

101. All of the following drugs can be used for diagnosis of Myasthenia gravis except :

- (a) Neostigmine
- (b) d-Tubocurarine
- (c) Edrophonium
- (d) Physostigmine
- 102. Which one of the following types of antagonism is observed between the actions of nitrites and cyanides ?
 - (a) Physical antagonism
 - (b) Physiological antagonism
 - (c) Chemical antagonism
 - (d) Competitive antagonism

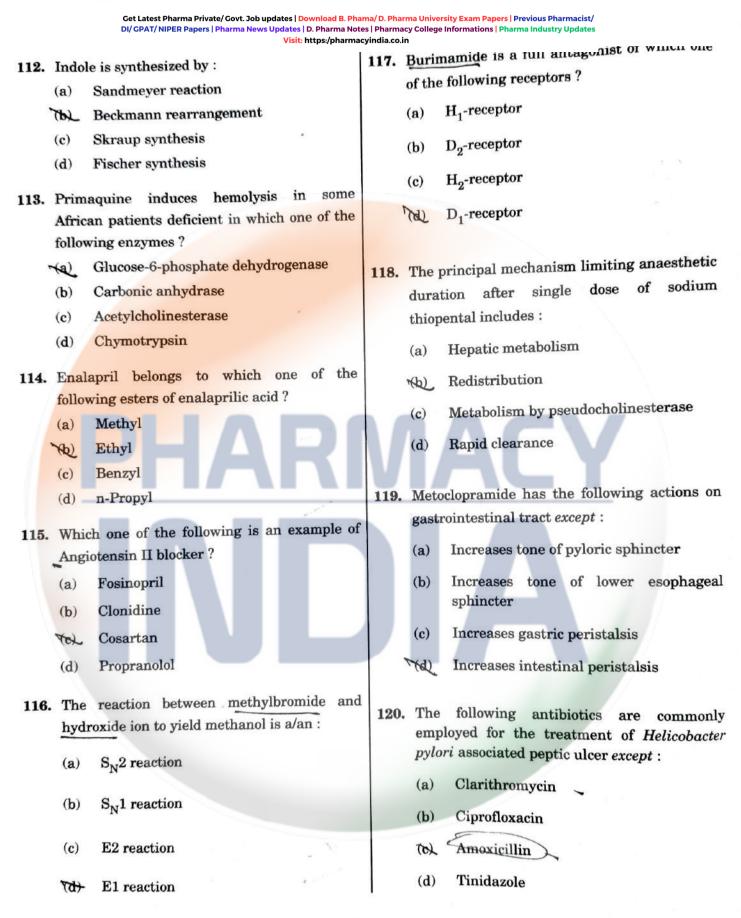
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(14 - D)

103. Which one of the following schedules in 106. Spironolactone has which one of the following ring system ? Good Manufacturing Practice Current (CGMP) in India is used for Medical devices ? y-Lactone (a) **β-Lactone** (b) M (a) **B-Lactam** (c) M-I (b) y-Lactam (d) M-II (c) 107. Paracetamol was detected as a metabolite of : M-III (d) Diclofenac (a) Ibuprofen (b) 104. In scale-up and post-approval changes, level 3 Ketoprofen (c) change indicates : Phenacetin Tal Changes that are unlikely to have any 108. Gutzeit test apparatus is used for which one (a) formulation detectable impact on of the following limit tests ? quality and performance. Heavy metals (a) Changes that could have a significant (b) (b) Iron impact on formulation quality and Arsenic (c) require usually performance and Sulphate (**d**) in profile comparisons dissolution multiple media. 109. Benzyne formation takes place during : Nucleophilic aromatic substitution Changes that could have a significant Tat (c) impact on formulation quality and $S_N 1$ reaction (b) performance and require conduct of S_N2 reaction (c) bioequivalence study. Electrophilic aromatic substitution (d) Changes that could have a significant 110. Ruff degradation of (+) - Xylose yields : (d) impact on formulation quality and (-) Glucose performance and lead to rejection of the (a) (+) Fructose (b) product. (-) Threose (c) (d) (+) Glucose 105. There is requirement of self-inspection under 111. Formation of Acetyl-CoA is the link between GMP to be carried out by the licensed which of the following? complete A drugs. of Glycolysis and Pentose shunt pathway manufacturers self-inspection should be carried out once in : (a) Glycolysis and Gluconeogenesis (b) Two years (a) Glycolysis and Citric acid cycle X(c) Three years (b) Citric acid cycle and Electron transport (d). A year (c) chain Six months (d) (15 - D)**KLOS-F-PHRM**

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- 121. According to GCP guidelines, the minimum number of members required in quorum of Ethics Committee to review the protocol is :
 - 5 (a)
 - 6 (b)
 - 7 tol.
 - 9 (d)
- 122. According to GCP guidelines, which one of the following statements does not hold true for Ethics Committee ?
 - Ethics members serving in All ar human Committee that oversees research at an institution must be employed by that institution.
 - Ethics Committee should include at (b) least one member whose primary area of interest is non-scientific.
 - should have Committee Ethics (c) appropriate gender representation.
 - For review of each protocol the quorum (d) of Ethics Committee shall be at least five members.
- 123. Which one of the following is not considered as the essential element in the study subject's informed consent documents according to GCP guidelines ?
 - (a) participation
 - An explanation about whom to contact (b) for trial related queries, rights of subjects and in the event of an injury
 - A statement that there is a possibility of (c) failure of investigational product to provide intended therapeutic effects
 - statement that the particular (d) A treatment or procedure may invoke risks to the subject, which are currently unforeseeable

- 124. As per ICH E6 GCP guidelines, all of the following should be complied except :
 - Information recorded in the (a) should be investigator's reports complete, accurate and legible >
 - Any missed study visits may not be (b) noted in the reports
 - Subjects who were dropped from or (c) failed to complete the study are noted in the report with the reason adequately explained ~
 - Informed consent should be adequately (d) documented
- whose GCP guidelines, per ICH 125. As responsibility is it to ensure that investigators are qualified by education and experience and are trained on the conduct of the protocol?
 - **FDA** (a)
 - Study sponsor (b)
 - Investigator (c)
 - **Ethics** Committee (H)
- 126. The document retention period as required by FDA following the date of marketing application approval or after the investigation is discontinued and the FDA notified, is :
 - One year (a)
 - Two years (b)
 - Three years (c)
 - **Five years** 20
- Expected duration of the subject's 127. In indirect Enzyme-Linked Immunosorbent Assav:
 - A standardized monoclonal antibody is (a) immobilized on the solid support for detection.
 - A standardized polyclonal antibody is (b) immobilized on the solid support for detection.
 - Antigen-antibody complex is (c) immobilized on the solid support for detection.
 - A standardized antigen is immobilized (d) on the solid support for detection.

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|--|--|---|------|---|---|
| 128. | | ch one of the following antibodies is onsible for allergic reactions ? IgE | | . <u>Cer</u> tra eler | ruloplasmin is responsible for binding and nsportation of which one of the following ments in the blood ? |
| | (b) | lgG | | (a) (b) | Copper Iron |
| | (c) | lgM | | (c) | Magnesium |
| | (d) | IgA | 199 | THE | |
| 129. | Whic vacci (a) | h one of the following is <i>not</i> a bacterial ne? BCG vaccine | 100. | (a). (b) | Development of thrombocytes |
| | (b) | Pertussis vaccine | | (c) (d) | Development of white blood cells Development of monocytes |
| 130. | (c) (d) Which regar (a) (b) (c) (d) | Meningococcal vaccine Measles vaccine h one of the following statements ding adjuvants is not correct ? They increase the antigen specific immune responses. They decrease the antigen specific immune responses. They preserve antigen integrity. They produce high affinity immune responses. | 135. | Whi rega (a) (b) (c) (d) Cons | |
| | seque | n one of the following is the correct nce of immunoglobulins on the basis of ular weight (Dalton)? | | 4. | Hepatitis B is a subunit vaccine. (HBsAg). |
| | | IgG > IgA > IgD > IgM > IgE | | Whic corre | h of the statements given above are ct? |
| | | $\underline{IgM} > IgE > IgG > IgD > \underline{IgA}$ | | (a) | 2 and 4 |
| | | IgD > IgG > IgA > IgE > IgM | | (b) (s)- | 2 and 3 1 and 3 |
| KLOS- | | IgM > IgE > IgD > IgA > IgG RM (19) | | (d) | 3 and 4 |
| | (18-D) | | | | |

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| 136. WHO guidelines Planmastability Drstudie recommend storage of pharmaceutica products at different temperatures an relative humidity in different zones. Th temperature and humidity recommended fo Zone IVb are : (a) 30°C/60% RH (b) 30°C/65% RH (c) 30°C/70% RH | d number of particles per mL allowed for the |
|--|--|
| (d) 30°C/75% RH 137. When there is change in the equipment of the process, there will be need for : (a) Retrospective validation | (a) 5 particles per mL (b) 25 particles per mL (c) 50 particles per mL |
| (a) Recrospective validation (b) Concurrent validation | (d) 10 particles per mL |
| (c) Prospective validation | |
| (d) Revalidation | 141. In India, IP Reference Substances (IPRS) are issued by the : |
| 138. Which one of the following is <i>not</i> correctly matched as per the classification of Clean rooms ISO-14644? | Lucknow |
| (a) Part 1 : Classification of air cleanliness | (b) Chemical Laboratory, Pune |
| (b) Part 3 : Test methods | C. Indian Pharmacopoeia Commission, |
| We Part 4 : Design, construction and | Ghaziabad |
| start-up | (d) Indian Institute of Chemical Biology, |
| (d) Part 5 : Terms and definitions | Kolkata |
| 139. Which of the following are correctly matched regarding registration of Pharmaceuticals for Human Use (ICH)? | 142. Which one of the following classes of clean air is required for aseptic operation ? |
| 1. ICH guideline Q8 : Pharmaceutical | (a) Class 100 |
| Development | (b) Class 1,000 |
| 2. ICH guideline Q9 : Quality Risk | Class 10,000 |
| Management | (d) Class 100,000 |
| 3. ICH guideline Q10 : Radio- pharmaceutical guidelines | 143. Which one of the following antioxidant |
| Select the correct answer using the code given below : | compounds is used in aqueous system cosmetics? |
| (a) 1 and 3 only | Ye) Sodium bisulphite |
| (b) 1 and 2 only | (b) Hydroquinone |
| (c) 2 and 3 only | (c) a-Tocopherol |
| (c) 2 and 3 only (d) 1, 2 and 3 | (d) Propyl gallate |
| | |
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- 144. Which one of the following application forms is applicable in case of manufacture for sale of Ayurveda, Siddha or Unani drugs ?
 - (a) Form 25-E
 - (b) Form 24-D
 - (c) Form 26-D
 - (d) Form 25-D
- 145. Which one of the following guidelines are followed for analytical method validation, if the method of analysis is *not* official in any pharmacopeia or appear in other recognized references?
 - (a) ICH guidelines
 - (b) WHO guidelines
 - GLP guidelines
 - (d) HACCP guidelines
- 146. Which one of the following sections represents misbranded cosmetics under manufacture, sale and distribution of drugs and cosmetics ?
 - Section 9A
 - (b) Section 9D
 - (c) Section 17C
 - (d) Section 14
- 147. Which one of the following antimicrobials is used in the preparation of deodorant soaps?
 - (a) Bithionol
 - (b) Propylene glycol
 - C. Trichlorocarbanilide
 - (d) Titanium dioxide

KLOS-F-PHRM

148. The expert committee shall examine the report of serious event of death and give its recommendation to the licensing authority for the purpose of arriving at the cause of the adverse event within how many days of the occurrence of the adverse event ?

- (a) 150 days
- (b) **30 days**
- Yel 90 days
 - (d) 105 days
- 149. According to New Drugs and Clinical Trials Rules, 2019, the sponsor is required to forward his report on serious adverse event of death after due analysis to the licensing authority and the head of the institution where the trial has been conducted within how many days of the occurrence of the event?
 - (a) Within 1 day
 - Within 7 days
 - (c) Within 14 days
 - (d) Within 30 days
- 150. With regard to compensation in case of injury or death during clinical trial, all of the following statements are true *except*:
 - (a) Financial compensation could be in the form of payment for medical management.
 - (b) Financial compensation is not provided for a child injured in-utero because of the participation of parent in clinical trial.
 - (c) In case of death, there is a provision to give financial compensation to the nominee(s) of the trial subject.
 (d) Financial
 - 1) Financial compensation shall be provided if injury or death occurs due to failure of investigational product to provide intended therapeutic effect where, the standard care, though available, was not provided to the subject as per the clinical trial protocol.

(20 - D)