

National Testing Agency

Question Paper Name :	Online Refresher Course In Pharmacy for Higher Education 21st Aug 2021 Shift 1
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Online Refresher Course In Pharmacy for Higher Education

Group Number :	1
Group Id :	60348989
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100
Is this Group for Examiner? :	No

Online Refresher Course In Pharmacy for Higher Education-1

Section Id :	603489147
Section Number :	1
Section type :	Online

Mandatory or Optional :	Mandatory
Number of Questions :	100
Number of Questions to be attempted :	100
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	603489258
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 6034896565 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

The application filled for generic approval in USFDA is

- 1. 505 J
- 2. 505 E
- 3. 505 B2
- 4. 505 B1

Options :
60348924253. 1
60348924254. 2
60348924255. 3
60348924256. 4

Question Number : 2 Question Id : 6034896566 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

The application filled for NDA approval in USFDA is

1. 505E2
2. 505 b(1)
3. 505 B3
4. 505E

Options :

60348924257. 1

60348924258. 2

60348924259. 3

60348924260. 4

Question Number : 3 Question Id : 6034896567 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Categories of regulations in pharmaceuticals are:

1. Highly regulated, less regulated, least regulated
2. Most regulated
3. Regulated, semi-regulated, non-regulated
4. Unregulated, semiregulated, non-regulated

Options :

60348924261. 1

60348924262. 2

60348924263. 3

60348924264. 4

Question Number : 4 Question Id : 6034896568 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Gold standard regulations are obtained from

1. USFDA
2. EMEA
3. CDSCO
4. FITC

Options :

60348924265. 1

60348924266. 2

60348924267. 3

60348924268. 4

Question Number : 5 Question Id : 6034896569 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

DESI drugs are those in practice before

1. 1964
2. 1994
3. 1974
4. 1962

Options :

60348924269. 1

60348924270. 2

60348924271. 3

60348924272. 4

Question Number : 6 Question Id : 6034896570 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Year of formation of USFDA is:

1. 1906
2. 1930
3. 1920
4. 1925

Options :

60348924273. 1

60348924274. 2

60348924275. 3

60348924276. 4

Question Number : 7 Question Id : 6034896571 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The act passed in 1976 by United States was

1. Drug Abuse Prevention and Control Act
2. Drug Importation Act
3. Public Health Service Act
4. Medical Devices Act

Options :

60348924277. 1

60348924278. 2

60348924279. 3

60348924280. 4

Question Number : 8 Question Id : 6034896572 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

William Procter is considered as Father of Pharmacy in

1. UK
2. Canada
3. USA
4. Italy

Options :

60348924281. 1

60348924282. 2

60348924283. 3

60348924284. 4

Question Number : 9 Question Id : 6034896573 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

FDA's orange book gives information about

1. List of objectionable substances
2. List of approved colours
3. List of products approved in US market
4. List of approved polymers

Options :

60348924285. 1

60348924286. 2

60348924287. 3

60348924288. 4

Question Number : 10 Question Id : 6034896574 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A suitable nanomedicine for lymphatic targeted drug delivery

1. Solid lipid nanoparticles
2. Micelles
3. Gold nanoparticles
4. Magnetic nanoparticles

Options :

60348924289. 1

60348924290. 2

60348924291. 3

60348924292. 4

Question Number : 11 Question Id : 6034896575 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In dendrimer synthesis, when the synthesis starts from core and working out towards the periphery

1. Divergent synthesis
2. Convergent synthesis
3. Polymerization
4. Retrosynthesis

Options :

60348924293. 1

60348924294. 2

60348924295. 3

60348924296. 4

Question Number : 12 Question Id : 6034896576 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following nanosystems is prepared from layers of graphene sheets?

1. Magnetic nanoparticles
2. Polymeric nanoparticles
3. Liposomes
4. Carbon nanotubes

Options :

60348924297. 1

60348924298. 2

60348924299. 3

60348924300. 4

Question Number : 13 Question Id : 6034896577 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Quantum dots was firstly prepared by

1. Brus and his Coworkers in 1983
2. G. Frens in 1970s
3. Richard Feynman in 1959
4. Metchnikov and Ehrlich 1908

Options :

60348924301. 1

60348924302. 2

60348924303. 3

60348924304. 4

Question Number : 14 Question Id : 6034896578 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Surface modification of nanoparticles with hydrophilic group improves

1. Potency
2. Efficacy
3. Blood circulation time
4. Clearance

Options :

60348924305. 1

60348924306. 2

60348924307. 3

60348924308. 4

Question Number : 15 Question Id : 6034896579 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The upconversion nanoparticles have the property to absorb lower-energy photons and

1. Emit lower energy electrons
2. Emit higher energy photons
3. Emit higher energy electrons
4. Emit higher energy protons and electrons

Options :

60348924309. 1

60348924310. 2

60348924311. 3

60348924312. 4

Question Number : 16 Question Id : 6034896580 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

An example of secondary packaging material is

1. Label
2. Bottles
3. Tapes
4. Caps

Options :

60348924313. 1

60348924314. 2

60348924315. 3

60348924316. 4

Question Number : 17 Question Id : 6034896581 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

An example of tertiary packaging materials is

1. Bottles
2. Shipper
3. Labels
4. Aluminium foil

Options :

60348924317. 1

60348924318. 2

60348924319. 3

60348924320. 4

Question Number : 18 Question Id : 6034896582 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The blister packs are formed out by

1. Aluminium baking membrane
2. Polymer membrane
3. Packaging paper
4. Combination of both 1 and 2

Options :

60348924321. 1

60348924322. 2

60348924323. 3

60348924324. 4

Question Number : 19 Question Id : 6034896583 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following tablet packaging is more resistant to light and moisture?

1. Strip pack
2. Blister pack
3. Both 1 and 2
4. None of the above

Options :

60348924325. 1

60348924326. 2

60348924327. 3

60348924328. 4

Question Number : 20 Question Id : 6034896584 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Plastic HDPE bottles are used for packaging of

1. Oral solids
2. Parenteral preparation
3. Syrups
4. Semisolid preparation

Options :

60348924329. 1

60348924330. 2

60348924331. 3

60348924332. 4

Question Number : 21 Question Id : 6034896585 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Respules that store eye drops can be called

1. FFS type containers
2. Three piece containers
3. Metered type
4. Non-metered type

Options :

60348924333. 1

60348924334. 2

60348924335. 3

60348924336. 4

Question Number : 22 Question Id : 6034896586 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Low density polyethylene (LDPE) bottles are used to pack

1. Capsules
2. Parenteral preparation
3. Eye drops
4. Inhalers

Options :

60348924337. 1

60348924338. 2

60348924339. 3

60348924340. 4

Question Number : 23 Question Id : 6034896587 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

An Osmotically controlled device is reliable to deliver the drug at

1. Zero order kinetics
2. First order kinetics
3. Mixed order kinetics
4. Second order kinetics

Options :

60348924341. 1

60348924342. 2

60348924343. 3

60348924344. 4

Question Number : 24 Question Id : 6034896588 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The rate of drug release from osmotic pump depends upon

1. Drug solubility
2. Osmotic pressure
3. Drug delivery orifice
4. All of the above

Options :

60348924345. 1

60348924346. 2

60348924347. 3

60348924348. 4

Question Number : 25 Question Id : 6034896589 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The laser drill of CO₂ laser beam is used for drilling

1. Enteric coated tablet
2. Osmotic pump
3. Soft gelatin capsule
4. None of the above

Options :

60348924349. 1

60348924350. 2

60348924351. 3

60348924352. 4

Question Number : 26 Question Id : 6034896590 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following osmogen is preferred in osmotic pumps?

1. Dextrose
2. Sucrose
3. Fructose
4. Mannitol

Options :

60348924353. 1

60348924354. 2

60348924355. 3

60348924356. 4

Question Number : 27 Question Id : 6034896591 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

An agent which has the ability to draw water into the porous network of a delivery device is called a

1. Pore forming agent
2. Osmotic agent
3. Flux regulating agent
4. Wicking agent

Options :

60348924357. 1

60348924358. 2

60348924359. 3

60348924360. 4

Question Number : 28 Question Id : 6034896592 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The push-pull osmotic pump was developed by

1. Sun Pharma
2. Merck & Co.
3. Alza Corporation
4. Pfizer Pharma

Options :

60348924361. 1

60348924362. 2

60348924363. 3

60348924364. 4

Question Number : 29 Question Id : 6034896593 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If the solubility of a drug is greater than 300 mg/ml then which of the following agents is added to reduce the fast release of the drug from an osmotic pump?

1. Sodium chloride
2. Polyethylene oxide
3. Calcium chloride
4. Glucose

Options :

60348924365. 1

60348924366. 2

60348924367. 3

60348924368. 4

Question Number : 30 Question Id : 6034896594 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The in-silico computational method(s) used in drug discovery is/are

1. Virtual screening and optimization
2. QSAR modelling
3. ADMET prediction
4. All of the above

Options :

60348924369. 1

60348924370. 2

60348924371. 3

60348924372. 4

Question Number : 31 Question Id : 6034896595 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

All of the following are freely available chemical structure databases, except

1. Pubchem
2. Drug bank
3. Chem spider
4. Chemgroup

Options :

60348924373. 1

60348924374. 2

60348924375. 3

60348924376. 4

Question Number : 32 Question Id : 6034896596 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The relative position of specific atoms or groups or features of the drug structure is called

1. 2D pharmacophore
2. 3D descriptor
3. Both 1 and 2
4. None of the above

Options :

60348924377. 1

60348924378. 2

60348924379. 3

60348924380. 4

Question Number : 33 Question Id : 6034896597 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In drug discovery, which of the following are used to discover target protein structures?

1. SC-XRD
2. Protein NMR
3. 3D electron microscopy
4. All of the above

Options :

60348924381. 1

60348924382. 2

60348924383. 3

60348924384. 4

Question Number : 34 Question Id : 6034896598 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A server that helps in translating NMR parameters into 3D structure model is

1. Drug bank
2. Pubchem
3. OLDERADO
4. Autodock

Options :

60348924385. 1

60348924386. 2

60348924387. 3

60348924388. 4

Question Number : 35 Question Id : 6034896599 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The lock and key hypothesis of drug action was proposed by

1. Ahlenius, 1973
2. Emil Fischer, 1894
3. Mayet, 2012
4. John Arbuthnot, 1710

Options :

60348924389. 1

60348924390. 2

60348924391. 3

60348924392. 4

Question Number : 36 Question Id : 6034896600 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Ischemic core of the stroke area contains

1. Living cells
2. Dead cells
3. Near to death cells
4. Healthy cells

Options :

60348924393. 1

60348924394. 2

60348924395. 3

60348924396. 4

Question Number : 37 Question Id : 6034896601 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Cells which are taken up by the macrophages and form a hole in brain due to damage of

1. Tumor cells
2. Somatic cells
3. Apoptotic cells
4. Necrotic cells

Options :

60348924397. 1

60348924398. 2

60348924399. 3

60348924400. 4

Question Number : 38 Question Id : 6034896602 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Condition of absence of enough oxygen in the tissues to sustain bodily functions is known as

1. Hypoxia
2. Dementia
3. Hyperplasia
4. Insomnia

Options :

60348924401. 1

60348924402. 2

60348924403. 3

60348924404. 4

Question Number : 39 Question Id : 6034896603 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The transient occurrence of signs or symptoms due to abnormal or excessive and synchronous neuronal activity in the brain is termed as

1. Hypoxia
2. Stroke
3. Seizure
4. None of the above

Options :

60348924405. 1

60348924406. 2

60348924407. 3

60348924408. 4

Question Number : 40 Question Id : 6034896604 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following is overexpressed during a seizure?

1. c-Fos
2. Kinase
3. Caspase
4. Hippocalcin

Options :

60348924409. 1

60348924410. 2

60348924411. 3

60348924412. 4

Question Number : 41 Question Id : 6034896605 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following animal models is used to induce strokes in rats?

1. MCAO model
2. Embolic model
3. Photothrombosis model
4. All of the above

Options :

60348924413. 1

60348924414. 2

60348924415. 3

60348924416. 4

Question Number : 42 Question Id : 6034896606 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Tissue loss quantification using ImageJ software is useful in evaluating

1. Arrhythmia model
2. Stroke model
3. CHF model
4. None of the above

Options :

60348924417. 1

60348924418. 2

60348924419. 3

60348924420. 4

Question Number : 43 Question Id : 6034896607 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The option in Set Measurements panel of ImageJ software that helps in tracking the results with respect to the sample name and the experiment number is

1. Add to overlay
2. Display label
3. Scientific notation
4. None of the above

Options :

60348924421. 1

60348924422. 2

60348924423. 3

60348924424. 4

Question Number : 44 Question Id : 6034896608 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What are the chemical entities necessary to retain memory in humans?

1. Acetyl choline
2. Butryl choline
3. Both 1 and 2
4. None of the above

Options :

60348924425. 1

60348924426. 2

60348924427. 3

60348924428. 4

Question Number : 45 Question Id : 6034896609 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The currently available pharmacotherapies of Alzheimer's disease include

1. AChE inhibitors
2. NMDA receptor antagonists
3. Both 1 and 2
4. None of the above

Options :

60348924429. 1

60348924430. 2

60348924431. 3

60348924432. 4

Question Number : 46 Question Id : 6034896610 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The brain enzyme responsible for the cleavage of acetylcholine is

1. Dopamine
2. Butyrylcholinesterase
3. Glycerophosphodiesterases
4. Nicotinamide mononucleotide adenylyl transferase

Options :

60348924433. 1

60348924434. 2

60348924435. 3

60348924436. 4

Question Number : 47 Question Id : 6034896611 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

FDA approved drug to treat Alzheimer's disease

1. Donepezil
2. Rivastigmine
3. Galantamine
4. All of the above

Options :

60348924437. 1

60348924438. 2

60348924439. 3

60348924440. 4

Question Number : 48 Question Id : 6034896612 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Following drug is A β aggregation inhibitor and antioxidant

1. Omeprazole
2. Ketamine
3. Ferulic acid
4. Tamoxifen

Options :

60348924441. 1

60348924442. 2

60348924443. 3

60348924444. 4

Question Number : 49 Question Id : 6034896613 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

An anti-Alzheimer's drug that acts as a mixed inhibitor is

1. Rivastigmine
2. Galantamine
3. Donepezil
4. All of the above

Options :

60348924445. 1

60348924446. 2

60348924447. 3

60348924448. 4

Question Number : 50 Question Id : 6034896614 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Failure rate in clinical trial of new drug molecules is majorly associated with

1. Lead identification
2. Identification of the molecule
3. Hit identification
4. Toxicity of the molecule

Options :

60348924449. 1

60348924450. 2

60348924451. 3

60348924452. 4

Question Number : 51 Question Id : 6034896615 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The pharmacokinetic parameter that describes the plasma level vs. time curve and is useful in assessing the bioavailability of a drug from its formulation is

1. C_{max}
2. T_{max}
3. AUC
4. All of the above

Options :

60348924453. 1

60348924454. 2

60348924455. 3

60348924456. 4

Question Number : 52 Question Id : 6034896616 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following parameters is useful in estimating rate of absorption?

1. Volume of distribution
2. T_{max}
3. Clearance
4. AUC

Options :

60348924457. 1

60348924458. 2

60348924459. 3

60348924460. 4

Question Number : 53 Question Id : 6034896617 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following pharmacokinetic parameters has no true physiologic meaning?

1. Volume of distribution (V_d)
2. Bioavailability
3. Area under curve (AUC)
4. Absorption rate constant (K_a)

Options :

60348924461. 1

60348924462. 2

60348924463. 3

60348924464. 4

Question Number : 54 Question Id : 6034896618 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

There exists a constant relationship between the concentration of drug in plasma, C, and the amount of drug in the body, X which is represented as

1. $X = C.V_d$
2. $X = V_d/C$
3. $C = V_d.C$
4. $C = V_d.C$

Options :

60348924465. 1

60348924466. 2

60348924467. 3

60348924468. 4

Question Number : 55 Question Id : 6034896619 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which kind of drug is toxic according to their pharmacokinetic profile?

1. High V_d drugs
2. Slow K_e drugs
3. Both 1 and 2
4. None of the above

Options :

60348924469. 1

60348924470. 2

60348924471. 3

60348924472. 4

Question Number : 56 Question Id : 6034896620 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The dose interval (inverse of dosing frequency) is calculated on the basis of

1. Drug percentage release
2. Shelf-life
3. Half-life
4. None of the above

Options :

60348924473. 1

60348924474. 2

60348924475. 3

60348924476. 4

Question Number : 57 Question Id : 6034896621 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The correct sequence of pharmacokinetic phases a drug may pass through is

1. Administration, inhalation, absorption and excretion
2. Formulation, absorption, metabolism and excretion
3. Disintegration, absorption, elimination and expiration
4. Absorption, distribution, metabolism and excretion

Options :

60348924477. 1

60348924478. 2

60348924479. 3

60348924480. 4

Question Number : 58 Question Id : 6034896622 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Gate control theory of pain was proposed by

1. Von Frey in 1895
2. Melzack and Wall in 1965
3. Strong in 1895
4. Livingstone in 1943

Options :

60348924481. 1

60348924482. 2

60348924483. 3

60348924484. 4

Question Number : 59 Question Id : 6034896623 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The object that carry the pain signal up to the brain

1. Glial cells
2. Transmission cells
3. Tumor cells
4. Kuffer cells

Options :

60348924485. 1

60348924486. 2

60348924487. 3

60348924488. 4

Question Number : 60 Question Id : 6034896624 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In which type of pain, damage of nerves occurs

1. Visceral pain
2. Nociceptive pain
3. Somatic pain
4. Neuropathic pain

Options :

60348924489. 1

60348924490. 2

60348924491. 3

60348924492. 4

Question Number : 61 Question Id : 6034896625 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Nociceptors that respond to incisions that break the skin surface is

1. Chemical nociceptors
2. Thermal nociceptors
3. Mechanical nociceptors
4. Silent nociceptors

Options :

60348924493. 1

60348924494. 2

60348924495. 3

60348924496. 4

Question Number : 62 Question Id : 6034896626 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A δ fiber quickly carries messages related to

1. Moderate pain
2. Intense pain
3. Cold thermal stimuli
4. Hot thermal stimuli

Options :

60348924497. 1

60348924498. 2

60348924499. 3

60348924500. 4

Question Number : 63 Question Id : 6034896627 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Cool thermal stimuli can be sensed by

1. TRPM8 channels
2. ASIC channels
3. TRPV1channels
4. None of the above

Options :

60348924501. 1

60348924502. 2

60348924503. 3

60348924504. 4

Question Number : 64 Question Id : 6034896628 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Polymodal type of nociceptor is

1. TRPV1
2. ASIC
3. TRPM8
4. All the above

Options :

60348924505. 1

60348924506. 2

60348924507. 3

60348924508. 4

Question Number : 65 Question Id : 6034896629 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is not a computational/theoretical method?

1. Molecular Dynamics
2. Virtual Screening
3. Pharmacophore Modeling
4. Isothermal Titration Calorimetry

Options :

60348924509. 1

60348924510. 2

60348924511. 3

60348924512. 4

Question Number : 66 Question Id : 6034896630 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Conservational profiling can be done by

1. ConPlate analysis
2. ConSurf analysis
3. Competitive analysis
4. None of the above

Options :

60348924513. 1

60348924514. 2

60348924515. 3

60348924516. 4

Question Number : 67 Question Id : 6034896631 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is the first step in MD simulation?

1. Generate topology
2. Add ions and solvate
3. Energy minimization
4. Equilibration

Options :

60348924517. 1

60348924518. 2

60348924519. 3

60348924520. 4

Question Number : 68 Question Id : 6034896632 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What does RMSD stands for?

1. Root Mean Square Deviation
2. Root Mean Standard Deviation
3. Real Mean Square Deviation
4. None of the above

Options :

60348924521. 1

60348924522. 2

60348924523. 3

60348924524. 4

Question Number : 69 Question Id : 6034896633 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What does DSF stands for?

1. Differential Standard Fluorimetry
2. Differential Scanning Fluorimetry
3. Different Scanning Fluorimetry
4. Dependent Standard Fluorimetry

Options :

60348924525. 1

60348924526. 2

60348924527. 3

60348924528. 4

Question Number : 70 Question Id : 6034896634 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is a computational/ theoretical method?

1. Isothermal Titration Calorimetry
2. Differential Scanning Fluorimetry
3. Nuclear Magnetic Resonance Spectroscopy
4. Molecular Dynamics

Options :

60348924529. 1

60348924530. 2

60348924531. 3

60348924532. 4

Question Number : 71 Question Id : 6034896635 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Ionization, Separation and detection of ions are performed in

1. NMR Spectroscopy
2. MASS Spectroscopy
3. FTIR
4. None of the above

Options :

60348924533. 1

60348924534. 2

60348924535. 3

60348924536. 4

Question Number : 72 Question Id : 6034896636 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The possible peak that can be observed in mass spectrum of CH_3COCH_3 is

1. Peak with m/z 44
2. Peak with m/z 58
3. Peak with m/z 16
4. All of the above

Options :

60348924537. 1

60348924538. 2

60348924539. 3

60348924540. 4

Question Number : 73 Question Id : 6034896637 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Mass spectra produces

1. Molecular ion peak
2. Base peak
3. Both 1 and 2
4. None of the above

Options :

60348924541. 1

60348924542. 2

60348924543. 3

60348924544. 4

Question Number : 74 Question Id : 6034896638 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The analytical technique in which the term "time of flight" is commonly used is

1. NMR spectroscopy
2. Mass spectroscopy
3. HPLC
4. FTIR

Options :

60348924545. 1

60348924546. 2

60348924547. 3

60348924548. 4

Question Number : 75 Question Id : 6034896639 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In LC-MS, LC represents

1. Separation capabilities
2. Detection capabilities
3. Ionizing capabilities
4. All of the above

Options :

60348924549. 1

60348924550. 2

60348924551. 3

60348924552. 4

Question Number : 76 Question Id : 6034896640 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Zeta potential measurement of nanoparticles indicates

1. Effectiveness
2. Toxicity
3. Stability
4. None of the above

Options :

60348924553. 1

60348924554. 2

60348924555. 3

60348924556. 4

Question Number : 77 Question Id : 6034896641 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Ligand conjugation to the polymeric nanoparticle can improve

1. Targeting efficiency
2. Drug loading efficiency
3. Zeta potential
4. Opsonization

Options :

60348924557. 1

60348924558. 2

60348924559. 3

60348924560. 4

Question Number : 78 Question Id : 6034896642 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Tuberculosis in brain is considered as

1. Extrapulmonary tuberculosis
2. Pulmonary tuberculosis
3. Terminal tuberculosis
4. Miliary tuberculosis

Options :

60348924561. 1

60348924562. 2

60348924563. 3

60348924564. 4

Question Number : 79 Question Id : 6034896643 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Scanning electron microscopy is used for which one of the following characterizations?

1. Cytotoxicity
2. Morphology
3. Zetapotential
4. Drug loading

Options :

60348924565. 1

60348924566. 2

60348924567. 3

60348924568. 4

Question Number : 80 Question Id : 6034896644 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Oral bioavailability of antitubercular drugs can be increased by

1. Nanotechnology
2. Macrophage targeting
3. Targeting beta cells
4. All the above

Options :

60348924569. 1

60348924570. 2

60348924571. 3

60348924572. 4

Question Number : 81 Question Id : 6034896645 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

First line drug used in the treatment of tuberculosis is

1. Ethambutol
2. Pyrazinamide
3. Isoniazid
4. All of the above

Options :

60348924573. 1

60348924574. 2

60348924575. 3

60348924576. 4

Question Number : 82 Question Id : 6034896646 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

D-cysteine is generally used in the synthesis of_____ from 6-Bromo-2- cyanobenzothizaole

1. D-luciferin analogues
2. D-transferrin analogues
3. D-acyl carnitine analogues
4. none of the above

Options :

60348924577. 1

60348924578. 2

60348924579. 3

60348924580. 4

Question Number : 83 Question Id : 6034896647 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

..... is a process in which energy absorbed by a substance is released relatively slowly in the form of light (typical lifetime: milliseconds to hours).

1. Fluorescence
2. Thermoluminescence
3. Bioluminescence
4. Phosphorescence

Options :

60348924581. 1

60348924582. 2

60348924583. 3

60348924584. 4

Question Number : 84 Question Id : 6034896648 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Chlorogenic acid contains _____ functional group

1. Phenol
2. Amide
3. Ester
4. Amine

Options :

60348924585. 1

60348924586. 2

60348924587. 3

60348924588. 4

Question Number : 85 Question Id : 6034896649 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Find out the incorrect statement?

1. Reaction of luciferin with luciferase produces oxyluciferin
2. Mg^{2+} is the important element of luciferin and luciferase reaction
3. D-Luciferin has 6'-amino functional group
4. Carbon dioxide gas is released during the reaction of luciferase and luciferin

Options :

60348924589. 1

60348924590. 2

60348924591. 3

60348924592. 4

Question Number : 86 Question Id : 6034896650 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following statement is incorrect?

1. Bioluminescence imaging (BLI) is a noninvasive technique
2. BLI track the biological event happening in cells
3. Light emission is detected by highly sensitive charged coupled device (CCD) cameras that allow the collection of single photons
4. Luciferins and luciferases need carbon dioxide and cofactors for the light-emitting reaction to emit light at different wavelengths

Options :

60348924593. 1

60348924594. 2

60348924595. 3

60348924596. 4

Question Number : 87 Question Id : 6034896651 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following colours has the longest wavelength?

1. Blue
2. Yellow
3. Green
4. Red

Options :

60348924597. 1

60348924598. 2

60348924599. 3

60348924600. 4

Question Number : 88 Question Id : 6034896652 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is the emission wavelength of Coelenterazine?

1. 556nm
2. 666nm
3. 466nm
4. 560nm

Options :

60348924601. 1

60348924602. 2

60348924603. 3

60348924604. 4

Question Number : 89 Question Id : 6034896653 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is a "Prodrug"?

1. Drug which increase the efficiency of another drug
2. Metabolic end product
3. Inactive drug which gets activated in body
4. Drug which competes with another for metabolism

Options :

60348924605. 1

60348924606. 2

60348924607. 3

60348924608. 4

Question Number : 90 Question Id : 6034896654 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Methicillin is degraded by

1. Acid
2. Water
3. Base
4. Ice

Options :

60348924609. 1

60348924610. 2

60348924611. 3

60348924612. 4

Question Number : 91 Question Id : 6034896655 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Methotrexate acts by

1. Folic acid antagonism
2. Pyrimidine antagonism
3. Purine antagonism
4. All of the above

Options :

60348924613. 1

60348924614. 2

60348924615. 3

60348924616. 4

Question Number : 92 Question Id : 6034896656 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The major drawback of repeated use of classical NSAIDs is

1. Hepatotoxicity
2. GIT toxicity
3. Nephrotoxicity
4. Neurotoxicity

Options :

60348924617. 1

60348924618. 2

60348924619. 3

60348924620. 4

Question Number : 93 Question Id : 6034896657 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Sulpha drugs act by

1. Covalent modification
2. Non-competitive inhibition
3. Allosteric modification
4. Competitive inhibition

Options :

60348924621. 1

60348924622. 2

60348924623. 3

60348924624. 4

Question Number : 94 Question Id : 6034896658 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following statements is true with respect to the angiotensin-converting enzyme inhibitor, captopril?

1. It is discovered by ligand-based drug design
2. It is a non-amino acid derivative
3. It is an amino-acid derivative
4. It is a non-heterocyclic derivative

Options :

60348924625. 1

60348924626. 2

60348924627. 3

60348924628. 4

Question Number : 95 Question Id : 6034896659 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following drugs is a prototype HIV-1 protease inhibitor?

1. Boceprevir
2. Indinavir
3. Atazanavir
4. Saquinavir

Options :

60348924629. 1

60348924630. 2

60348924631. 3

60348924632. 4

Question Number : 96 Question Id : 6034896660 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Drugs are not effectively absorbed from the colon, due to

1. Extreme alkaline pH
2. Degradation of drug
3. Presence of colonocytes
4. None of above

Options :

60348924633. 1

60348924634. 2

60348924635. 3

60348924636. 4

Question Number : 97 Question Id : 6034896661 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Sulphasalazine is a prodrug of and

1. 5-ASA and sulphapyridine
2. 5-ASA and sulphamethoxazole
3. 5-ASA and sulphahydrine
4. 5-ASA and 5ASA

Options :

60348924637. 1

60348924638. 2

60348924639. 3

60348924640. 4

Question Number : 98 Question Id : 6034896662 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

How can β cyclodextrin (β CD) be used for colononic delivery of drug?

1. Making an inclusion complex
2. Conjugating its surface OH groups with the drug
3. Making matrix tablets with β CD
4. None of the above

Options :

60348924641. 1

60348924642. 2

60348924643. 3

60348924644. 4

Question Number : 99 Question Id : 6034896663 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is the reason for a sudden drop in pH in the ascending colon from the ileocaecal region?

1. Metabolism of protein
2. Fermentation of lactose
3. Metabolism of fats
4. None of the above

Options :

60348924645. 1

60348924646. 2

60348924647. 3

60348924648. 4

Question Number : 100 Question Id : 6034896664 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Dextran based prodrugs are degraded by which of the following colonic enzymes?

1. Azoreductase
2. Sulfatase
3. Dextranase
4. Esterase

Options :

60348924649. 1

60348924650. 2

60348924651. 3

60348924652. 4