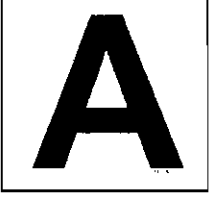


औषध निरीक्षक, उच्च व औषध महासंज्ञा गृह, वैद्यकीय जीवशास्त्र  
 औषध स्वयं किरीडा-चाळणी परीक्षा  
 परीक्षा दिनांक- 21/02/2016



2016

CODE : JO7

प्रश्नपुस्तिका क्रमांक

BOOKLET NO.

प्रश्नपुस्तिका

एकूण प्रश्न : 100

चाळणी परीक्षा

एकूण गुण : 200

वेळ : 1 ( एक ) तास

### सूचना

(1) सदर प्रश्नपुस्तिकेत 100 अनिवार्य प्रश्न आहेत. उमेदवारांनी प्रश्नांची उत्तरे लिहिण्यास सुरुवात करण्यापूर्वी या प्रश्नपुस्तिकेत सर्व प्रश्न आहेत किंवा नाहीत याची खात्री करून घ्यावी. असा तसेच अन्य काही दोष आढळल्यास ही प्रश्नपुस्तिका समवेक्षकांकडून लगेच बदलून घ्यावी.

परीक्षा-क्रमांक									

↑ केंद्राची संकेताक्षरे

↑ शेवटचा अंक

(2) आपला परीक्षा-क्रमांक ह्या चौकोनांत न विसरता बॉलपेनने लिहावा.

(3) वर छापलेला प्रश्नपुस्तिका क्रमांक तुमच्या उत्तरपत्रिकेवर विशिष्ट जागी उत्तरपत्रिकेवरील सूचनेप्रमाणे न विसरता नमूद करावा.

(4) या प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाला 4 पर्यायी उत्तरे सुचविली असून त्यांना 1, 2, 3 आणि 4 असे क्रमांक दिलेले आहेत. त्या चार उत्तरांपैकी सर्वात योग्य उत्तराचा क्रमांक उत्तरपत्रिकेवरील सूचनेप्रमाणे तुमच्या उत्तरपत्रिकेवर नमूद करावा. अशा प्रकारे उत्तरपत्रिकेवर उत्तरक्रमांक नमूद करताना तो संबंधित प्रश्नक्रमांकासमोर छायीकित करून दर्शविला जाईल याची काळजी घ्यावी. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.

(5) सर्व प्रश्नांना समान गुण आहेत. यास्तव सर्व प्रश्नांची उत्तरे द्यावीत. घाईमुळे चुका होणार नाहीत याची दक्षता घेऊनच शक्य तितक्या वेगाने प्रश्न सोडवावेत. क्रमाने प्रश्न सोडविणे श्रेयस्कर आहे पण एखादा प्रश्न कठीण वाटल्यास त्यावर वेळ न घालविता पुढील प्रश्नाकडे वळावे. अशा प्रकारे शेवटच्या प्रश्नापर्यंत पोहोचल्यानंतर वेळ शिल्लक राहिल्यास कठीण म्हणून वगळलेल्या प्रश्नांकडे परतणे सोईस्कर ठरेल.

(6) उत्तरपत्रिकेत एकदा नमूद केलेले उत्तर खोडता येणार नाही. नमूद केलेले उत्तर खोडून नव्याने उत्तर दिल्यास ते तपासले जाणार नाही.

(7) प्रस्तुत परीक्षेच्या उत्तरपत्रिकांचे मूल्यांकन करताना उमेदवारांच्या उत्तरपत्रिकेतील योग्य उत्तरांनाच गुण दिले जातील. तसेच "उमेदवाराने वस्तुनिष्ठ बहुपर्यायी स्वरूपाच्या प्रश्नांची दिलेल्या चार उत्तरांपैकी सर्वात योग्य उत्तरेच उत्तरपत्रिकेत नमूद करावीत. अन्यथा त्यांच्या उत्तरपत्रिकेत सोडविलेल्या प्रत्येक चार चुकीच्या उत्तरांसाठी एका प्रश्नाचे गुण वजा करण्यात येतील".

### ताकीद

ह्या प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपेपर्यंत ही प्रश्नपुस्तिका आयोगाची मालमत्ता असून ती परीक्षाकक्षात उमेदवासाला परीक्षेसाठी वापरण्यास देण्यात येत आहे. ही वेळ संपेपर्यंत सदर प्रश्नपुस्तिकेची प्रत/प्रती, किंवा सदर प्रश्नपुस्तिकेतील काही आशय कोणत्याही स्वरूपात प्रत्यक्ष वा अप्रत्यक्षपणे कोणत्याही व्यक्तीस पुरविणे, तसेच प्रसिद्ध करणे हा गुन्हा असून अशी कृती करणाऱ्या व्यक्तीवर शासनाने जारी केलेल्या "परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचा अधिनियम-82" यातील तरतुदीनुसार तसेच प्रचलित कायद्याच्या तरतुदीनुसार कारवाई करण्यात येईल व दोषी व्यक्ती कमाल एक वर्षाच्या कारावासाच्या आणि/किंवा रुपये एक हजार रकमेच्या दंडाच्या शिक्षेस पात्र होईल.

तसेच ह्या प्रश्नपत्रिकेसाठी विहित केलेली वेळ संपण्याआधी ही प्रश्नपुस्तिका अनधिकृतपणे बाळगणे हा सुद्धा गुन्हा असून तसे करणारी व्यक्ती आयोगाच्या कर्मचारीवृंदापैकी, तसेच परीक्षेच्या पर्यवेक्षकीयवृंदापैकी असली तरीही अशा व्यक्तीविरुद्ध उक्त अधिनियमानुसार कारवाई करण्यात येईल व दोषी व्यक्ती शिक्षेस पात्र होईल.

पुढील सूचना प्रश्नपुस्तिकेच्या अंतिम पृष्ठावर पहा

पर्यवेक्षकांच्या सूचनेविना हे सील उघडू नये

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK

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1. HIV/AIDS is diagnosed by some specific tests. Identify which among the following test/s is/are used ?
- (1) ELISA (2) DNA - PCR by amplification  
(3) Western blot (4) All the above
- 
2. What is the antidote for Lead poisoning ?
- (1) Dimercaptosuccinic acid (2) Physostigmine  
(3) Fomepizole (4) Atropine
- 
3. Which of the following drugs is **not** a Tocolytic ?
- (1) Ritoderine (2) Magnesium sulfate  
(3) Nifedipine (4) Ergotamine
- 
4. Which of the following NSAIDs is **not** a propionic acid derivative ?
- (1) Ibuprofen (2) Naproxen (3) Oxaprozin (4) Piroxicam
- 
5. Which anticoagulant is produced by mast cells and basophils ?
- (1) Heparin (2) Prostaglandin (3) Histidine (4) Vitamin K
- 
6. Under which rule of Drugs and Cosmetics Act, 1940 and rules 1945, licences for blood banks are issued ?
- (1) 122 G (2) 122 A (3) 160 B (4) 150 B
- 
7. Match the following :
- |                    |                 |
|--------------------|-----------------|
| (a) Thromboplastin | (i) Factor VII  |
| (b) Proconvertin   | (ii) Factor III |
| (c) Fibrinogen     | (iii) Factor II |
| (d) Prothrombin    | (iv) Factor I   |
- Codes :**
- |     | (a)   | (b)  | (c)   | (d)   |
|-----|-------|------|-------|-------|
| (1) | (ii)  | (i)  | (iv)  | (iii) |
| (2) | (iii) | (iv) | (i)   | (ii)  |
| (3) | (i)   | (ii) | (iii) | (iv)  |
| (4) | (iii) | (iv) | (ii)  | (i)   |
- 

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

8. Basophils originate in :

- |                    |                |
|--------------------|----------------|
| (1) Megakaryoblast | (2) Monoblast  |
| (3) Megakaryocyte  | (4) Myeloblast |

9. Match the following anticancer drugs with their cell cycle effects :

- |                        |                       |
|------------------------|-----------------------|
| (a) Cytarabine (ara-c) | (i) $G_1$ - S phase   |
| (b) Etoposide          | (ii) M phase          |
| (c) Vincristine        | (iii) $G_2$ - M phase |
| (d) Bleomycin          | (iv) S phase          |

Codes :

- |     | (a)  | (b)   | (c)   | (d)   |
|-----|------|-------|-------|-------|
| (1) | (iv) | (i)   | (ii)  | (iii) |
| (2) | (iv) | (ii)  | (i)   | (iii) |
| (3) | (i)  | (ii)  | (iii) | (iv)  |
| (4) | (iv) | (iii) | (i)   | (ii)  |

10. Which of the following is an ester and short-acting Local anaesthetic ?

- |                |               |               |              |
|----------------|---------------|---------------|--------------|
| (1) Tetracaine | (2) Dibucaine | (3) Lidocaine | (4) Procaine |
|----------------|---------------|---------------|--------------|

11. Antifungal Antibiotic Amphotericin B is obtained from :

- |                           |                              |
|---------------------------|------------------------------|
| (1) Streptomyces pimprina | (2) Penicillium griseofulvin |
| (3) Streptomyces nodosus  | (4) Both (1) and (3)         |

12. Which of the following drugs is **not** an enzyme - inducer ?

- |                    |               |              |                |
|--------------------|---------------|--------------|----------------|
| (1) Phenobarbitone | (2) Phenytoin | (3) Rifampin | (4) Cimetidine |
|--------------------|---------------|--------------|----------------|

13. One of the following drugs is most widely used as local anaesthetic for infiltration, regional nerve block, epidural and subarachnoid anaesthesia. It is also commonly used for topical anaesthesia :

- |                             |                               |
|-----------------------------|-------------------------------|
| (1) Cocaine hydrochloride   | (2) Procaine hydrochloride    |
| (3) Lidocaine hydrochloride | (4) Mepivacaine hydrochloride |

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

14. Which of the following antiretroviral drugs belongs to Non-nucleoside reverse transcriptase inhibitors (NNRTI) category ?

- (1) Nevirapine (2) Indinavir (3) Ritonavir (4) Stavudine

15. Which of the following drugs induces delta-amino-levulinic-acid (ALA)- synthetase ?

- (1) Phenobarbitone (2) Ethanol  
(3) Paraldehyde (4) Diazepam

16. Which of the following drugs is **not** a component of fixed-dose combination used in RNTCP for Tuberculosis ?

- (1) Rifampicin (2) Moxifloxacin (3) Isoniazid (4) Ethambutol

17. Micro-organism responsible for sexually transmitted diseases which causes an eye infection that is the primary cause of blindness world wide :

- (1) Neisseria gonorrhoeae (2) Treponema pallidum  
(3) Chlamydia trachomatis (4) Candida albicans

18. On which chromosome, the genes for three chains of fibrinogen are found ?

- (1) chromosome 1 (2) chromosome 3 (3) chromosome 4 (4) chromosome 6

19. Whole human blood is a mixture of blood and anticoagulant solution and contains not less than :

- (1) 8.7% w/v of haemoglobin (2) 2.3% w/v of haemoglobin  
(3) 9.07% w/v of haemoglobin (4) 9.7% w/v of haemoglobin

20. Match the following :

- |   |                         |
|---|-------------------------|
| (a) Nor - adrenaline reuptake inhibitor | (i) Fluoxetine          |
| (b) Serotonin reuptake inhibitor        | (ii) Phenelzine         |
| (c) Mono amine oxidase inhibitor        | (iii) Dextroamphetamine |
| (d) Psychomotor stimulant               | (iv) Amitriptyline      |

Codes :

- |     | (a)   | (b)   | (c)  | (d)   |
|-----|-------|-------|------|-------|
| (1) | (iv)  | (i)   | (ii) | (iii) |
| (2) | (iii) | (ii)  | (i)  | (iv)  |
| (3) | (iii) | (iv)  | (ii) | (i)   |
| (4) | (ii)  | (iii) | (iv) | (i)   |

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

P.T.O.

21. The relative nephrotoxicity among the Non-steroidal anti-inflammatory drugs is one of the following :

- (1) Indomethacin < Fenoprofen < Ibuprofen
- (2) Ibuprofen > Fenoprofen > Indomethacin
- (3) Indomethacin > Fenoprofen > Ibuprofen
- (4) Fenoprofen > Ibuprofen > Indomethacin

22. Which of the following antifungal drugs is used only topically ?

- (1) Griseofulvin
- (2) Clotrimazole
- (3) Amphotericin - B
- (4) Nystatin

23. What is accepted daily intake in mg/kg/day of Aldrin ?

- (1) 0.005
- (2) 0.008
- (3) 0.0001
- (4) 0.0005

24. Which of the following is Non-opioids Antitussive ?

- (1) Codeine
- (2) Ethylmorphine
- (3) Dextromethorphan
- (4) Pholcodine

25. Match the columns :

- |                             |  |
|-----------------------------|--|
| (a) Phenothiazines          | (i) Suppresses inositol signalling               |
| (b) A typical Antipsychotic | (ii) M - Receptor Blockade                       |
| (c) Bilyrophenone           | (iii) Blockade of 5 - HT <sub>2A</sub> receptors |
| (d) Lithium                 | (iv) Blockade of D <sub>2</sub> receptors        |

Codes :

- |     |       |       |       |       |
|-----|-------|-------|-------|-------|
|     | (a)   | (b)   | (c)   | (d)   |
| (1) | (iii) | (iv)  | (i)   | (ii)  |
| (2) | (ii)  | (i)   | (iv)  | (iii) |
| (3) | (iv)  | (iii) | (ii)  | (i)   |
| (4) | (i)   | (ii)  | (iii) | (iv)  |

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

26. Which one of the following drugs is uterine relaxant ?  
(1) Oxytocin (2) Ergonovine (3) Ritodrine (4) Quinine
- 
27. The selective angiotensin II receptor blocker used as antihypertensive drug is one of the following :  
(1) Captopril (2) Verapamil HCl (3) Amiloride (4) Losartan
- 
28. What is the consequence of interaction between 6-Mercaptopurine and Allopurinol ?  
(1) Dose of 6-Mercaptopurine is reduced  
(2) No effect  
(3) Dose of 6-Mercaptopurine is increased  
(4) Dose of Allopurinol is increased
- 
29. For donors experiencing plasmapheresis, Aspirin should not have been taken \_\_\_\_\_ day(s) prior to donation.  
(1) One (2) Three (3) Five (4) Seven
- 
30. Which of the following oral contraceptive preparations contains an estrogen and a progestin in fixed doses for all the days of the treatment cycle ?  
(1) Minipill (2) Emergency pill (3) Combined pill (4) Phased pill
- 
31. During and after an attack of infectious mononucleosis an agglutinin for sheep red blood cells appears in the serum and is of diagnostic significance. This agglutinin is demonstrated in the \_\_\_\_\_.  
(1) Rose - Waaler test (2) Differential sheep cell agglutination test  
(3) Paul - Bunnell test (4) MG agglutination test
- 
32. Media that enhance the growth of a particular type of bacterium and do not enhance and even may inhibit other types of organisms are called :  
(1) Differential media (2) Selective media  
(3) Maintenance media (4) Assay media
- 

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

33. In the laboratory diagnosis of rabies impression smears of the brain are stained by Seller's technique to demonstrate the inclusion bodies called \_\_\_\_\_.

- |                          |                          |
|--------------------------|--------------------------|
| (1) Negri bodies         | (2) Cowdry type A bodies |
| (3) Cowdry type B bodies | (4) Bollinger bodies     |

34. Lowbury and Lilly's medium, and Willis and Hobbs' medium are used for cultivation of \_\_\_\_\_.

- |                |                    |
|----------------|--------------------|
| (1) Bordetella | (2) Clostridia     |
| (3) Bacilli    | (4) Corynebacteria |

35. Alcohol in water (60 - 85%) is a good disinfectant for medical instruments and laboratory surfaces. It destroys the microorganisms present there by :

- (1) solubilizing lipids and protein denaturation
- (2) disrupting cell membrane
- (3) combining with -SH groups
- (4) acting as strong alkylating agent

36. pH indicator/dye present in Christensen's urea medium is \_\_\_\_\_.

- |                 |                         |
|-----------------|-------------------------|
| (1) neutral red | (2) andrade's indicator |
| (3) methyl red  | (4) phenol red          |

37. Which of the following statements are true ?

- (a) The LAL test reagent is obtained from a horse shoe crab.
- (b) The LAL test is more sensitive than the pyrogen test.
- (c) The LAL test only detects endotoxins of gram negative bacteria.
- (d) The LAL test can be used for radiopharmaceuticals.

Codes :

- |                           |                      |
|---------------------------|----------------------|
| (1) (a), (b) and (d)      | (2) (a), (b) and (c) |
| (3) (a), (b), (c) and (d) | (4) (a) and (b)      |

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK



38. The antimicrobial drug showing structural similarity to paraaminobenzoic acid and which is bacteriostatic is :

- (a) Penicillin
- (b) Rifamycin
- (c) Isoniazid
- (d) Sulfonamides

Which of the statement/s given above is/are correct ?

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

39. Match the following :

Bioassay test organisms	Vitamins
(a) Lactobacillus casei	(i) Cyanocobalamin
(b) Lactobacillus leichmanii	(ii) Inositol
(c) Lactobacillus arabinosus	(iii) Biotin
(d) Saccharomyces uvarum	(iv) Calcium pantothenate

Codes :

- |     | (a)   | (b)   | (c)  | (d)   |
|-----|-------|-------|------|-------|
| (1) | (iv)  | (ii)  | (i)  | (iii) |
| (2) | (iv)  | (iii) | (ii) | (i)   |
| (3) | (iii) | (iv)  | (i)  | (ii)  |
| (4) | (iii) | (i)   | (iv) | (ii)  |

40. The pyrogen test is designated to limit the risk of a febrile reaction following parenteral administration of drugs. It is intended to be used for liquid products that can be tolerated by the test \_\_\_\_\_ in a dose of 10 mL per kg, injected intravenously.

- (1) rabbit
- (2) white mice
- (3) guinea pig
- (4) hamster

41. Collodion filters are used for the isolation of \_\_\_\_\_.

- (1) Bacteria
- (2) Algae
- (3) Moulds
- (4) Viruses

42. Diagnosis of *Helicobacter pylori* can be done by \_\_\_\_\_.

- (1) Urea breath test
- (2) Copper breath test
- (3) Sodium breath test
- (4) Potassium breath test

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

43. Which of the following is used to serodiagnose syphilis ?

- (1) Venereal Disease Research Laboratory test
- (2) Widal test
- (3) Sereny test
- (4) E test

44. Typical BOD values for domestic waste water, including sewage are approximately \_\_\_\_\_ units.

- (1) 200 BOD
- (2) 100 BOD
- (3) 500 BOD
- (4) 300 BOD

45. The major causes of common cold are :

- (1) Influenza viruses
- (2) Adenoviruses
- (3) Rhinoviruses
- (4) None of the above

46. Which of the following statement/s about antibiotics is/are **incorrect** ?

- (a) Oral activity can be conferred on cephalosporins by esterification of the 3 - carboxylic acid group.
- (b) Acylureidopenicillins are stable under acidic conditions.
- (c) Aminoglycosides have a highly substituted 1, 3 - diamino cyclohexane central ring.
- (d) The enolized tricarbonyl methane system at C<sub>1</sub> to C<sub>3</sub> in the tetracycline structure need not be intact for good activity.

**Answer options :**

- (1) (c) only
- (2) (a) and (c) only
- (3) (b) and (d) only
- (4) all of the above

47. Schedule M refers to \_\_\_\_\_.

- (1) GMP and requirements of factory premises equipment for manufacture of drugs.
- (2) Standard of surgical dressings.
- (3) Life period of drugs.
- (4) Standard of cosmetics.

कच्चा कामसाठी जागा /SPACE FOR ROUGH WORK

48. Who is the Chairman of the Drug Technical Advisory Board (DTAB) ?

- (1) Drugs Controller of India
  - (2) The President - PCI
  - (3) The President - Medical Council of India
  - (4) Director - General of Health Services
- 

49. Benzalkonium chloride which is used as Antimicrobial preservative can be used in what concentration ?

- (1) 0.002 - 0.02%
  - (2) 0.1%
  - (3) 15%
  - (4) 30%
- 

50. Practical application of recombinant DNA technology is in the production of :

- (a) Interferon
- (b) Insulin
- (c) Growth Hormone
- (d) Phospholipid

Which of the above options are correct ?

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

51. Which of the following statement/s about Tautomerism is/are correct ?

- (a) Shifting of carbon atom from one hydrogen to another to produce enantiomers is called tautomerism.
- (b) Sugar with anomeric carbon undergoes tautomerism in acidic solution.
- (c) Sugar with anomeric carbon undergoes tautomerism in alkaline solution.
- (d) Shifting of 'H' atom from one carbon to another to produce enediols is called tautomerism.

Answer options :

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

52. The most naturally occurring monosaccharides in mammalian tissue are of which configuration ?

- (1) D
  - (2) L
  - (3) L(+)
  - (4) L(-)
- 

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53. Physical properties of well formulated suspension and emulsion are :

- (a) Product must remain sufficiently homogeneous.
- (b) The sediment or creaming produced on storage is easily suspended by moderate agitation.
- (c) Any suspended particle should be small and uniform in size.
- (d) The product needs to be thickened to reduce settling rate of particles.

Which of the statements given above are **correct** ?

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

54. The concentration of phenyl ethyl alcohol as a preservative in ophthalmic suspensions is :

- (1) 0.01%                      (2) 0.5%                      (3) 0.001%                      (4) 0.1%
- 

55. Which of the following is water soluble coating material used in dosage form (solid) ?

- (1) Gelatin                      (2) Paraffin                      (3) Shellac                      (4) Nylon
- 

56. Ketone bodies is the term collectively called for :

- (a) acetoacetate                      (b) 3 - hydroxy butyrate  
(c) acetone                      (d) ketone

**Answer options :**

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

57. What are the factors affecting dosage form design ?

- (a) common ion effect                      (b) pka  
(c) crystallization                      (d) autoclaving

**Answer options :**

- (1) (a), (b) and (c)    (2) (a) and (b)    (3) (c) and (d)    (4) all of the above
- 

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58.  $\gamma$  - Aminobutyrate (GABA) is formed by decarboxylation of :

- |                  |                    |
|------------------|--------------------|
| (1) L - arginine | (2) L - glutamate  |
| (3) L - tyrosine | (4) L - spermidine |

59. Hemolytic anaemia can be caused by deficiency of following enzyme/s of pentose phosphate pathway :

- (a) glucose - 1 - phosphokinase  
 (b) 6 - phospho gluconate reductase  
 (c) glucose - 6 - phosphate dehydrogenase  
 (d) transketolase

**Answer options :**

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

60. A drug shall be deemed to be spurious :

- (a) If it is manufactured under the name which belongs to another drug.  
 (b) If it has been substituted wholly or partially by another drug or another substance.  
 (c) If it purports to be a product of manufacturer of whom it is not truly a product.  
 (d) If it contains any harmful or toxic substances which may render it injurious to health.

Which of the statements given above are correct ?

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

61. Match the enteric coating polymers with their synonyms :

- |                                 |                    |
|---------------------------------|--------------------|
| (a) Cellulose acetate phthalate | (i) Sureteric      |
| (b) Shellac                     | (ii) Certiseal     |
| (c) Polymethacrylate            | (iii) Aquacoat CPD |
| (d) Polyvinyl acetate phthalate | (iv) Kollicoat MAE |

**Codes :**

- |     | (a)   | (b)   | (c)   | (d)   |
|-----|-------|-------|-------|-------|
| (1) | (ii)  | (iv)  | (iii) | (i)   |
| (2) | (i)   | (iii) | (ii)  | (iv)  |
| (3) | (iv)  | (i)   | (ii)  | (iii) |
| (4) | (iii) | (ii)  | (iv)  | (i)   |

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62. Government Analyst is appointed by State and Central Governments under section 33 F of the Act for medicine :

- (a) Ayurvedic (b) Siddha  
(c) Unani (d) Allopathic

Which of the options given above are correct ?

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

63. Which of the following statements/s is/are correct with respect to membrane controlled sustained release formulations ?

- (a) Release of the drug is by disintegration.  
(b) A plasticizer is required to lower the glass transition temperature of the film.  
(c) Fillers that compact by brittle fracture are suitable if used alone.  
(d) Water soluble components are not necessary to increase the rate of release.

Answer options :

- (1) only (c) (2) only (d) (3) only (b) (4) all of the above

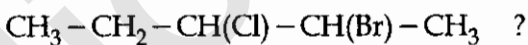
64. With respect to suspensions the Stocks law of particles is related to which factor/s :

- (a) Diameter of particle  
(b) Density of particle and medium  
(c) Viscosity of medium  
(d) Sedimentation rate

Answer options :

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

65. How many stereo isomers are possible for the compound :



- (1) 2 (2) 3 (3) 4 (4) 5

66. Which of the following is not an anionic surfactant ?

- (1) Carboxylic acid  
(2) Alkyl and alkyl-aryl sulfonate  
(3) Ammonium carboxylate  
(4) Substituted alkyl amide

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67. The control test for gauging of surgical catgut is carried out at :

- (1) RH 45 - 55% and temperature 30°C
- (2) RH 45% and temperature 25°C
- (3) Ambient temperature and humidity
- (4) RH 60 - 80% and temperature 16 - 21°C

68. According to the schedule U the particulars shown of manufacturing records for substances other than parenteral are :

- |                    |  |
|--------------------|--|
| (a) Serial No.     | (b) Name of product                    |
| (c) Lot/Batch size | (d) Reference of Master Formula record |

Which of the particulars given above are correct ?

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

69. Drug shall be deemed as misbranded :

- (a) If it is not labelled in a prescribed manner.
- (b) If it is coloured, coated, powdered or polished so that damage is concealed or made to appear of greater therapeutic value than it really is.
- (c) If its label or container bears any statement, design or device which makes false claim for the drug.
- (d) If it is prepared, stored or packed under insanitary condition.

Which of the statements given above are correct ?

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

70. In continuous fermentation, steady state is achieved using principles of :

- |                |               |             |               |
|----------------|---------------|-------------|---------------|
| (1) thermostat | (2) levelstat | (3) pH stat | (4) chemostat |
|----------------|---------------|-------------|---------------|

71. The important disaccharides are :

- |             |             |             |               |
|-------------|-------------|-------------|---------------|
| (a) Sucrose | (b) Maltose | (c) Lactose | (d) Cellulose |
|-------------|-------------|-------------|---------------|

Which of the above options are correct ?

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

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72. According to D and C Act 1940 and R.T. 1945 schedule M-II is meant for the manufacture of :

- |                             |                     |
|-----------------------------|---------------------|
| (1) Cosmetics               | (2) Medical devices |
| (3) Pharmaceutical products | (4) Allied products |

---

73. Which of the following statements relating to DNA vaccines is correct ?

- (1) Pathogen gene itself is used as vaccine either naked or inserted
- (2) Gene coding on immunological protein
- (3) Polysaccharide vaccine
- (4) Attenuated non-pathogenic

---

74. Identify the incorrect statement/s for an adulterated drug :

- (a) It purports to be the product of a manufacturer of whom it is truly not a product.
- (b) It is not labelled in the prescribed manner.
- (c) It is a substitute for another drug.
- (d) It bears a colour other than prescribed.

**Answer options :**

- |                      |                           |
|----------------------|---------------------------|
| (1) all of the above | (2) (a), (b) and (c) only |
| (3) (a) and (c) only | (4) (d) only              |

---

75. In sustained release dosage forms, the drug release is retarded due to the presence of :

- |                  |                     |
|------------------|---------------------|
| (1) special coat | (2) embedded matrix |
| (3) core tablet  | (4) granule mix     |

---

76. The Time period to supply information under the Right To Information Act (RTI) concerning 'Life or Liberty of Person' is :

- |              |              |              |              |
|--------------|--------------|--------------|--------------|
| (1) 24 hours | (2) 32 hours | (3) 72 hours | (4) 48 hours |
|--------------|--------------|--------------|--------------|

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77. List of Essential Drugs includes :

- (a) Nucleoside Reverse Transcriptase Inhibitors. T - Zidovudine and its combinations.
- (b) Insect Repellant - Diethyl toluamide, DDT etc.
- (c) Antiparkinson's medicine - Levodopa, Carbidopa.
- (d) Plasma substitutes - Tranexamic acid

**Answer options :**

- (1) All of the above
- (2) (a), (c) and (d) only
- (3) (a) and (c) only
- (4) None of these

78. The following pairs give GMP requirements as per the various schedules. Which of the following pairs is **incorrect** ?

- (1) Schedule T - GMP requirements of Ayurvedic, Unani and Siddha Medicine
- (2) Schedule M - I - Requirements of Factory Premises for Manufacturing of Homeopathic Preparations
- (3) Schedule M - II - Requirements for manufacturing premises of cosmetics
- (4) Schedule N - Requirements for manufacturing of medical devices

79. The present Drugs Controller General of India is :

- (1) Dr. G.N. Singh
- (2) Dr. V.G. Somani
- (3) Dr. Harshadeep Kamble
- (4) Dr. S. Reddy

80. The key principles for the regulation of prices in the National Pharmaceutical Pricing Policy, 2012, are as follows :

- (a) Essentiality of Drugs
- (b) Control of Formulation Prices only
- (c) Market based Pricing
- (d) Cost based Pricing

**Answer options :**

- (1) (a) and (b) only
- (2) (a), (b) and (c) only
- (3) all of the above
- (4) none of the above

81. Consumer Protection Act, 1986 is applicable to the following area :

- (1) Maharashtra only
- (2) Madhya Pradesh only
- (3) Gujarat only
- (4) All over India except Jammu and Kashmir

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82. When was the minocycline, drug belonging to the category of antibiotics, cleared and approved by Drugs Controller General of India, New Delhi ?

- (1) June, 1975 (2) January, 2015  
(3) January, 1988 (4) May, 1988
- 

83. The functions of the Central Drug Laboratory in respect of the classes of the drugs are enlisted below :

- (a) Laboratory in respect of blood grouping and diagnostic kits for Hepatitis B, C virus - National Institute of Biologicals, Noida  
(b) Laboratory with respect to VDRL Antigen - Pasteur Institute, Conoor  
(c) Indian Veterinary Research Institute - Haffkine, Parel  
(d) Laboratory for Homeopathic medicines - Ghaziabad

Which of the above pairs are true ?

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

84. Advertisements of drugs used in following diseases and disorders are prohibited :

- (a) drugs for procurement of miscarriage  
(b) drugs to correct menstrual disorders in women  
(c) drugs to improve fairness  
(d) drugs to improve the power of human beings for sexual pleasure

Which of the above statements are correct ?

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

85. National Cancer Registry Programme which is a part of the National Cancer Control Programme was initiated in the year 1982 by which of the following organizations ?

- (1) AICTE (2) UGC  
(3) ICMR (4) Tata Cancer Research Center
- 

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86. The main regulatory authorities which issue guidelines that are globally accepted and followed by Pharma Industries are :

- (a) USFDA (United States Food and Drug Administration)
- (b) UKMCA (The Medicine Control Agency)
- (c) ICH (International Conference on Harmonization)
- (d) WHO (World Health Organization)

**Answer options :**

- (1) (a) and (b) only
- (2) (c) and (d) only
- (3) All of the above
- (4) None of the above

87. The functions of Central Drug Laboratory in respect of any drug or class of drugs are carried out at :

- (a) Central Research Institute, Kasauli
- (b) Prescribed laboratory by central government
- (c) ISO certified laboratory
- (d) NAAC accredited laboratory

**Answer options :**

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

88. Functional Foods are termed as nutraceuticals. Which of the following is/are the example/s of nutraceuticals ?

- (a) Isolated compounds
- (b) Dietary supplements
- (c) Designed foods
- (d) Processed foods

**Answer options :**

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

89. Narcotic Drugs include :

- (a) Coca Leaf
- (b) Acetorphine
- (c) Cannabis
- (d) Ketobemidone

Which of the above options are correct ?

- (1) (a) and (b) only
- (2) (c) and (d) only
- (3) All of the above
- (4) None of the above

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90. For Import Licence which of the following statements is **incorrect** ?

- (1) Import Licence in Form 10 - A to import drugs is specified in schedule - X.
- (2) Import Licence in Form 10 is to import drugs excluding those specified in schedule - X.
- (3) An application for import Licence shall be made in Form 8 for Drugs excluding those specified in schedule - X.
- (4) An application for import licence shall be made in Form 9A for drugs specified in schedule X.

91. The permitted synthetic organic colours and natural colours used in the cosmetics shall not contain more than :

- (a) 2 parts per million of Arsenic calculated as Arsenic Trioxide
- (b) 20 parts per million of lead calculated as lead
- (c) 2 parts per million of mercury compounds
- (d) 100 parts per million of Heavy Metals other than lead calculated as the total of the respective metals

**Answer options :**

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

92. Poison Act, 1919 mentions :

The power of state government to regulate possession for sale and sale of any poison. Such rules give details pertaining to :

- (a) The grant of licences to possess any specified poison for sale, wholesale, retail and fixing of the fees to be charged for such licences.
- (b) The classes of person to whom alone such licences may be granted or sold.
- (c) The maximum quantity of any such poison which may be sold to any one person.
- (d) The maintenance of record by such vendors and the labelling, packaging and safe custody by person who sold or possessed it for sale.

Which of the above statements are **correct** ?

- (1) (a) and (b) only
- (2) (c) and (d) only
- (3) (a), (b), (c) and (d)
- (4) None of these

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93. Drug will be deemed to be spurious if :

- (a) If it is imported under a name which belongs to another drug.
- (b) If it is coloured, coated, powdered or polished so that damage is concealed.
- (c) If it is not labelled in the prescribed manner.
- (d) If it is made to appear of better or greater therapeutic value.

Which of the above statement/s is/are **correct** ?

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

94. Select the logically equivalent option with respect to the statement given below.

“If Uma and Sohil go for a beach walk, then it is raining.”

- (1) If it is not raining then Uma and Sohil do not go for a beach walk.
- (2) If Uma and Sohil do not go for a beach walk, then it is raining.
- (3) If Uma and Sohil do not go for a beach walk, then it is not raining.
- (4) If it is not raining then Uma and Sohil go for a beach walk.

95. Donu, Nanu and Yonu who belong to three different communities, participated in a chapati making competition and one of them won the trophy. They belong to communities namely Romi, Mori and Bori. All members of Romi community always make true statements, all members of Mori community always make untrue statements, all members of Bori community make true and untrue statements alternately. They made the following statements when reporter asked them to comment.

**Donu :** If Yonu had not disturbed me by singing loudly while making chapatis I would have won the trophy. Yonu always speaks the truth. Yonu is the winner.

**Nanu :** Donu won the trophy. Yonu is not the member of Mori community.

**Yonu :** I was not singing to disturb Donu. Nanu won the trophy.

Who won the trophy ?

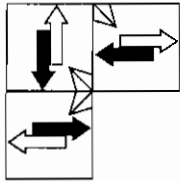
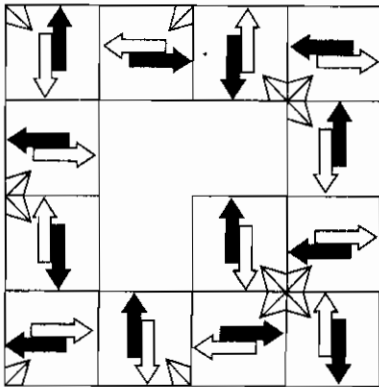
**Answer options :**

- (1) Yonu
- (2) Donu
- (3) Nanu
- (4) Yonu and Donu jointly won the trophy.

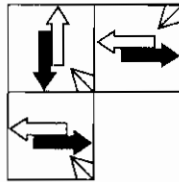
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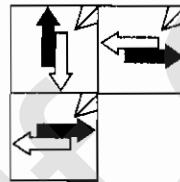
96. Select a set of logically appropriate images for filling empty places.



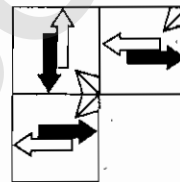
(1)



(2)

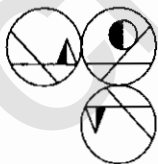
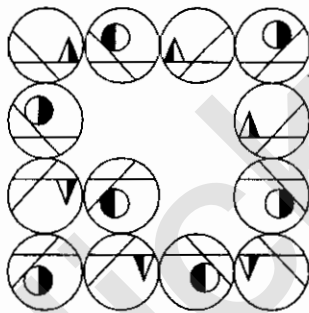


(3)

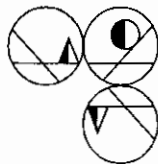


(4)

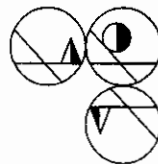
97. Select logically appropriate set of images to fill the blank places of following arrangement.



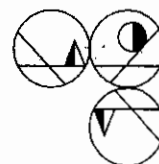
(1)



(2)



(3)



(4)

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98. A family consists of H, G, F, E, D and C as its members. C has two sons, an unmarried daughter and a daughter-in-law and his wife shares all his responsibilities. H and his mother D are very supportive to G's wife in her social work. H is the brother-in-law of above mentioned daughter-in-law. G's sister assists G's wife E in her social work. Select option that indicates C's daughter.

- (1) G                      (2) F                      (3) E                      (4) H

99. Select the appropriate option for replacing the question mark.

$$\boxed{J^3} \quad \boxed{D^9}$$

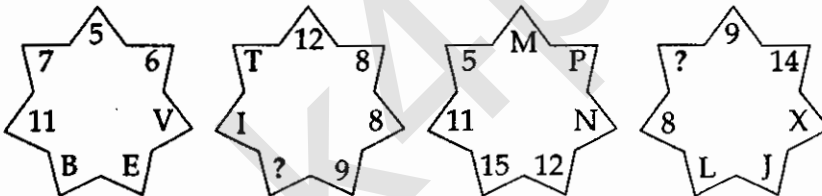
$$\boxed{Q^4} \quad \boxed{W^{10}}$$

$$\boxed{G^6} \quad \boxed{?}$$

$$\boxed{T^7} \quad \boxed{Z^{13}}$$

- (1)  $Y^{12}$                       (2)  $A^{11}$                       (3)  $A^{12}$                       (4)  $B^{11}$

100. Choose appropriate alternative to replace the question marks ?



- (1) G, 17                      (2) I, 14  
(3) H, 15                      (4) None of the above

- o o o -

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### सूचना — ( पृष्ठ 1 वरून पुढे.... )

- (8) प्रश्नपुस्तिकेमध्ये विहित केलेल्या विशिष्ट जागीच कच्चे काम (रफ वर्क) करावे. प्रश्नपुस्तिकेव्यतिरिक्त उत्तरपत्रिकेवर वा इतर कागदावर कच्चे काम केल्यास ते कॉपी करण्याच्या उद्देशाने केले आहे, असे मानले जाईल व त्यानुसार उमेदवारावर शासनाने जारी केलेल्या "परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचे अधिनियम-82" यातील तरतुदीनुसार कारवाई करण्यात येईल व दोषी व्यक्ती कमाल एक वर्षाच्या कारावासाच्या आणि/किंवा रुपये एक हजार रकमेच्या दंडाच्या शिक्षेस पात्र होईल.
- (9) सदर प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपल्यानंतर उमेदवाराला ही प्रश्नपुस्तिका स्वतःबरोबर परीक्षाकक्षाबाहेर घेऊन जाण्यास परवानगी आहे. मात्र परीक्षा कक्षाबाहेर जाण्यापूर्वी उमेदवाराने आपल्या उत्तरपत्रिकेचा भाग-1 समवेक्षकाकडे न विसरता परत करणे आवश्यक आहे.

### नमुना प्रश्न

Pick out the correct word to fill in the blank :

- प्र. क्र. 201. I congratulate you \_\_\_\_\_ your grand success.  
 (1) for (2) at  
 (3) on (4) about

हा प्रश्नाचे योग्य उत्तर "(3) on" असे आहे. त्यामुळे या प्रश्नाचे उत्तर "(3)" होईल, यास्तव खालीलप्रमाणे प्रश्न क्र. 201 समोरील उत्तर-क्रमांक "③" हे वर्तुळ पूर्णपणे छायंकित करून दाखविणे आवश्यक आहे.

- प्र. क्र. 201. ① ② ● ④

अशा पद्धतीने प्रस्तुत प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाचा तुमचा उत्तरक्रमांक हा तुम्हाला स्वतंत्ररीत्या पुरविलेल्या उत्तरपत्रिकेवरील त्या त्या प्रश्नक्रमांकासमोरील संबंधित वर्तुळ पूर्णपणे छायंकित करून दाखवावा. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK