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A

दि. ५-१०-०८

औषध निरीक्षक सामान्य राज्य सेवा २०१८ - ७

CODE : VDS

प्रश्नपुस्तिका क्रमांक  
BOOKLET NO.

103185

वेळ : दीड तास

चाळणी परीक्षा / SCREENING TEST

एकूण प्रश्न : 150

एकूण गुण : 150

### सूचना

- (1) सदर प्रश्नपुस्तिकेत 150 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.
  - (2) आपला परीक्षा क्रमांक ह्या चौकोनात न विसरता बॉलपेनने लिहावा.
- |                 |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|
| परीक्षा-क्रमांक |  |  |  |  |  |  |  |  |  |
|                 |  |  |  |  |  |  |  |  |  |
|                 |  |  |  |  |  |  |  |  |  |
|                 |  |  |  |  |  |  |  |  |  |
- केंद्राची संकेताक्षरे
- शेवटचा अंक
- (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 छायांकित 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. त्या प्राप्त गुणांतून त्यांनी उत्तरपत्रिकेत चुकीची उत्तरे नमूद केल्याबद्दल गुण वजा केले जाणार नाहीत.
  - (8) प्रश्नपुस्तिकेमध्ये विहित केलेल्या विशिष्ट जागीच कच्चे काम (रफ वर्क) करावे. प्रश्नपुस्तिकेव्यतिरिक्त उत्तरपत्रिकेवर वा इतर कागदावर कच्चे काम केल्यास ते काँपी 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) ----- > ( कृपया पान उलटवा )

### ताकीद

ह्या प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपेपर्यंत ही प्रश्नपुस्तिका आयोगाची मालमत्ता असून ती परीक्षाकक्षात उमेदवाराला 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.

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- (9) सदर प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपल्यानंतर उमेदवाराला ही प्रश्नपुस्तिका स्वतःबरोबर परीक्षाकक्षाबाहेर घेऊन जाण्यास परवानगी आहे. मात्र परीक्षाकक्षाबाहेर जाण्यापूर्वी उमेदवाराने आपल्या उत्तरपत्रिकेचा भाग-1 समवेक्षकाकडे न विसरता परत करणे आवश्यक आहे.

### नमुना प्रश्न

प्रश्न.क्र. 201. The Catch varies inversely with the size of the :

- |                 |             |
|-----------------|-------------|
| (1) nozzle      | (2) droplet |
| (3) obstruction | (4) sprayer |

ह्या प्रश्नाचे योग्य उत्तर “(3) obstruction” हे आहे. त्यामुळे या प्रश्नाचे उत्तर “(3)” होईल, आता प्र.क्र. 201 समोरील उत्तर-क्रमांक “(3)” चा कंस खालीलप्रमाणे पूर्णपणे छायांकित 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 छायांकित करून दाखवावा. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे. पेन्सिल वा शाईचे पेन वापरू नये.

पर्यवेक्षकांच्या सूचनेविना हे पृष्ठ उलटू नये

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1. Which enzyme is used by the HIV to form DNA in the host cell ?  
(1) Endonuclease (2) Reverse transcriptase  
(3) Isomerase (4) None of the above

---

2. Mumps is an acute disease caused by \_\_\_\_\_ organism.  
(1) HIV (2) Paramyxovirus (3) Poliovirus (4) Hepatitis virus

---

3. The agents that control the growth of micro-organisms on inanimate objects are referred as \_\_\_\_\_.  
(1) sterilants (2) antiseptics (3) antibiotics (4) disinfectants

---

4. Preservatives are not to be included in formulations of injectables, administered by \_\_\_\_\_ route.  
(1) Intramuscular (2) Subcutaneous (3) Intraocular (4) Intradermal

---

5. In the LAL test \_\_\_\_\_ cells are used for the detection of pyrogen.  
(1) plasma (2) lymphocyte (3) red blood (4) amoebocyte

---

6. Nandu remembers that Sachin's birthday is certainly after 18th August but not after 22nd August. Meeta certainly remembers that Sachin's birthday is before 20th August and after 17th of August. If both of them are correct, then when is Sachin's birthday ?  
(1) 19 (2) 22 (3) 20 (4) 21

---

7. Which one of the following is *not* a Sexually Transmitted Disease (STD) ?  
(1) Gonorrhoea (2) Syphilis (3) Chancroid (4) Hepatitis

---

8. In an autoclave, the sterilization by moist heat is carried out at \_\_\_\_\_.  
(1) 160°C for 1 hour  
(2) 180°C for 30 minutes  
(3) 121°C and 15 psi pressure for 15 minutes  
(4) 100°C and 10 psi pressure for 10 minutes

---

9. The limit test for acid-insoluble ash gives \_\_\_\_\_ impurities.  
(1) inorganic impurities (2) organic impurities  
(3) siliceous impurities (4) none of the above

---

10. Which of the following equations is useful in calculating shelf life of Pharmaceuticals in accelerated stability testing ?  
(1) Noye's Whitney Equation (2) Gibb's Helmholtz Equation  
(3) Arrhenius Equation (4) Stokes Equation

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11. A drug sample, taken by the drug inspector for analysis is sent to \_\_\_\_\_ .  
 (1) Drug Controller (2) Chief Inspector  
 (3) Government Analyst (4) Public Testing Laboratory
- 
12. Central Register of Pharmacists is maintained by \_\_\_\_\_ .  
 (1) State Health Ministry (2) Pharmacy Council of India  
 (3) State Pharmacy Council (4) Drug Controller of India
- 
13. The drug \_\_\_\_\_ is *not* included in the First Schedule of DPCO.  
 (1) rifampicin (2) paracetamol (3) aspirin (4) vitamin C
- 
14. A local anaesthetic agent suitable only for injection is \_\_\_\_\_ .  
 (1) Tetracaine (2) Benzocaine (3) Dibucaine (4) Procaine
- 
15. In a person infected with HBV, the first virological marker detectable in serum is \_\_\_\_\_ .  
 (1) HBsA (2) HBcA (3) HBeA (4) Anti HBs
- 
16. Which of the following drug is preferred for prevention and treatment of osteoporosis in postmenopausal women ?  
 (1) Raloxifene (2) Tamoxifen (3) Ormeloxifene (4) Toremifene
- 
17. The common carrier, used in vaccine formulation is :  
 (1) Alum (2) Silica  
 (3) Calcium carbonate (4) Mineral oil
- 
18. Which of these cannot be an OTC drug ?  
 (1) Antacids (2) Antibiotics  
 (3) Multivitamin syrup (4) Calcium tablets
- 
19. Find the missing character.



- (1) 10 (2) 11 (3) 12 (4) 13

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27. Which of the following blocks Folic acid synthesis ?

- (1) Sulfanilamide (2) Carbonylamide (3) Alkylamide (4) Acrylamide

28. Any person, aggrieved by any notification, issued regarding Drugs (Price Control) order, may apply to Government for a review within \_\_\_\_\_ of publication in the official gazette.

- (1) 10 days (2) 30 days (3) 15 days (4) 6 months

29. One term in the number series is wrong. Find out the wrong term.

2, 5, 10, 50, 500, 5000

- (1) 5 (2) 10 (3) 50 (4) 5000

30. The purpose of combined drug regimen in tuberculosis is mainly :

- (1) To increase the duration of active therapy  
(2) To delay the emergence of drug resistance  
(3) Promote placebo effect on the patient  
(4) To get better effect

31. Arrange the following words in the sequence in which they occur in dictionary :

(i) Brook (ii) Bandit (iii) Boisterous (iv) Baffle (v) Bright

- (1) (iv), (ii), (iii), (v), (i) (2) (ii), (iv), (iii), (i), (v)  
(3) (ii), (iv), (iii), (v), (i) (4) (iv), (ii), (iii), (i), (v)

32. All amino acids used in protein biosynthesis have atleast one asymmetric center except -

- (1) methionine (2) arginine (3) glycine (4) tyrosine

33. Which of the following personnel is *not* required for the operation of a blood bank facility ?

- (1) Medical officer (2) Registered nurse  
(3) Blood bank technician possessing DMLT (4) Medical social worker

34. Which of the following is referred to as mucosal antibody ?

- (1) Ig G (2) Ig E (3) Ig M (4) Ig A

35. With regard to the use of nitrates, one of the following statements is correct :

- (1) Tolerance occurs only to the adverse effects and not to the antianginal effect  
(2) Nitrates have diuretic effect  
(3) Glyceryl trinitrate is given to relieve angina rapidly  
(4) Are the drugs of choice in hypertension

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20. Vaccine - preventable diseases include all except :

- (1) Measles (2) Typhoid  
(3) Japanese Encephalitis (4) AIDS

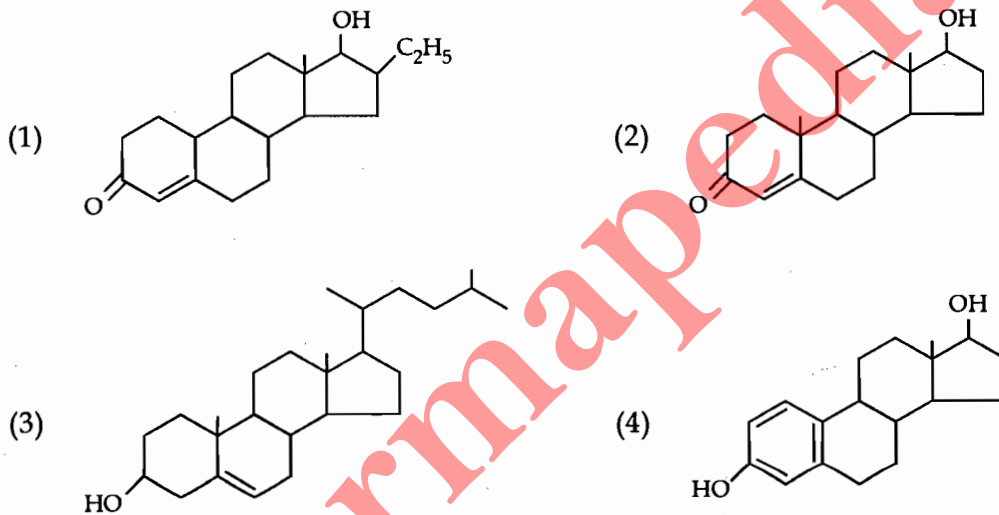
21. Which of the following is the sole bearer of genetic information (normally) ?

- (1) m-RNA (2) DNA (3) r-RNA (4) Chromatin

22. Which of the following is not a macrolide antibiotic ?

- (1) Erythromycin (2) Roxithromycin  
(3) Terramycin (4) Clarithromycin

23. Which of the following will have estrogenic activity



24. Production of which of the following is a characteristic feature of staphylococcal food poisoning ?

- (1) Neurotoxin (2) Enterotoxin (3) Cytotoxin (4) Endotoxin

25. "Hirudin"

- (1) coagulates blood (2) acts as a heparin substitute and inhibits thrombin  
(3) is found in human saliva (4) is an antidote of heparin

26. As per Gmp guidelines the permitted limit of solid content in water for injection is :

- (1) 100 ppm (2) 1 ppm (3) 10 ppm (4) 0.10 ppm

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43. HLB values of four surfactants are listed below. Which of them is suitable for use as a W/o emulsifier ?

- (1) A - 20                      (2) B - 2.1                      (3) C - 13.3                      (4) D - 4.7

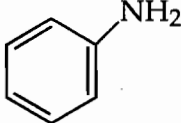
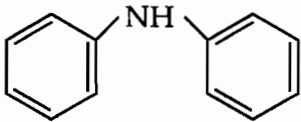
44. All of the following are features of Nimesulide except \_\_\_\_\_ .

- (1) less oral absorption                      (2) weak cox inhibitor  
(3) high protein binding                      (4) potent anti inflammatory action

45. The plasmids conferring drug resistance are called \_\_\_\_\_.

- (1) R - plasmids                      (2) col - plasmids  
(3) cryptic - plasmids                      (4) degradative plasmids

46. Which of the following compounds will give positive diazotization reaction ?

- (1)                       (2)  $\text{CH}_3\text{-NH}_2$   
(3)                       (4)  $\text{CH}_3\text{-C(=O)-CH}_3$

47. The double helix model of DNA was proposed by \_\_\_\_\_ .

- (1) Watson and Crick                      (2) Charagoff  
(3) Robinson                      (4) Krebs

48. All the drugs are narcotic except :

- (1) Opium                      (2) Cannabis                      (3) Hemp                      (4) Cinchona

49. Choose the conclusion which logically follows from the given statement.

**Statements :** Some men are educated.  
Educated persons prefer small families.

**Conclusions :** (i) All small families are educated.  
(ii) Some men prefer small families.

- (1) If only conclusion (i) follows                      (2) If only conclusion (ii) follows  
(3) If either (i) or (ii) follows                      (4) If neither (i) nor (ii) follows

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36. The active proteolytic enzyme in gastric juice is :

- (1) Pepsinogen      (2) Pepsin      (3) Trypsin      (4) Gastrin

37. Which of the following compounds is added as a reducing compound to a medium to decrease its oxygen content ?

- (1) Sodium Taurocholate      (2) Sodium Hydrogen Phosphate  
(3) Sodium Cyanide      (4) Sodium Thioglycolate

38. Squeezing of WBCs through the pores of blood capillaries is called as \_\_\_\_\_.

- (1) Passive diffusion      (2) Diapedesis  
(3) Chemotaxis      (4) Pinocytosis

39. The most dangerous situation amongst the following is \_\_\_\_\_.

- (1) Rh negative mother bearing her first Rh positive child  
(2) Rh negative mother bearing her second Rh positive child  
(3) Rh positive mother bearing her first Rh negative child  
(4) Rh positive mother bearing her second Rh negative child

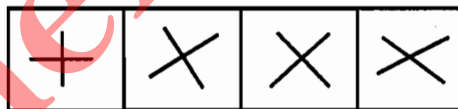
40. Erythroblastosis fetalis is a :

- (1) hemolytic disease of the new-born related to blood groups  
(2) type of anaemia  
(3) disease related to bone marrow  
(4) decrease in white blood cell count

41. Which process leads to a change from liquid to solid form, causing denaturation of proteins ?

- (1) Precipitation      (2) Coagulation  
(3) Agglutination      (4) Centrifugation

42. Choose the figure different from the rest.



- (i)      (ii)      (iii)      (iv)

- (1) (i)      (2) (ii)      (3) (iii)      (4) (iv)

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50. Penicillin G continues to be the first line treatment for following disease, as the causative organism has not developed resistance as yet \_\_\_\_\_ .  
(1) Gonorrhoea (2) Syphilis  
(3) Staphylococcal abscess (4) H. influenza meningitis
- 
51. Which of the following untoward effect is shared by both phenobarbitone and phenytoin ?  
(1) Sedation (2) Megaloblastic anaemia  
(3) Hirsutism (4) Gingival hyperplasia
- 
52. \_\_\_\_\_ viruses are detected by haemagglutination test.  
(1) Rabbits (2) Polio (3) Influenza (4) Rubella
- 
53. \_\_\_\_\_ is a causative agent of tuberculosis.  
(1) Streptococcus (2) Staphylococcus (3) Mycobacterium (4) Pseudomonas
- 
54. ISO 14000 is concerned with \_\_\_\_\_.  
(1) quality management systems  
(2) guidelines for performance of quality management  
(3) environmental safety  
(4) information - processing system
- 
55. A school planning to start fishing classes, is developing fish ponds on the school grounds. These ponds are dug up with the help of the school children. If 5 children take one hour to dig a pond, how long would it take 12 children to dig 12 ponds of same type ?  
(1) 3 hours (2) 4 hours (3) 5 hours (4) 6 hours
- 
56. As an anticoagulant, aspirin differs from coumarin in which of the following respects ?  
(1) Being synthetic in nature (2) Mechanism of action  
(3) Route of administration (4) Therapeutic use
- 
57. Whole human blood is stored at \_\_\_\_\_.  
(1)  $-20^{\circ}\text{C}$  (2)  $8-10^{\circ}\text{C}$  (3)  $2-8^{\circ}\text{C}$  (4)  $0^{\circ}\text{C}$
- 
58. A man said to a lady, "your mother's husband's sister is my aunt." How is the lady related to the man ?  
(1) Daughter (2) Grand daughter (3) Mother (4) Sister
- 
59. Which of the following antidiabetic drug (oral) does not stimulate insulin secretion ?  
(1) Nateglinide (2) Repaglinide (3) Glyburide (4) Metformin

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60. The polyene antibiotics primarily act by \_\_\_\_\_ .

- (1) Inhibiting fungal ergosterol synthesis
- (2) Creating micropores in fungal cell membrane
- (3) Inhibiting fungal DNA synthesis
- (4) Disorienting microtubules in fungal cells

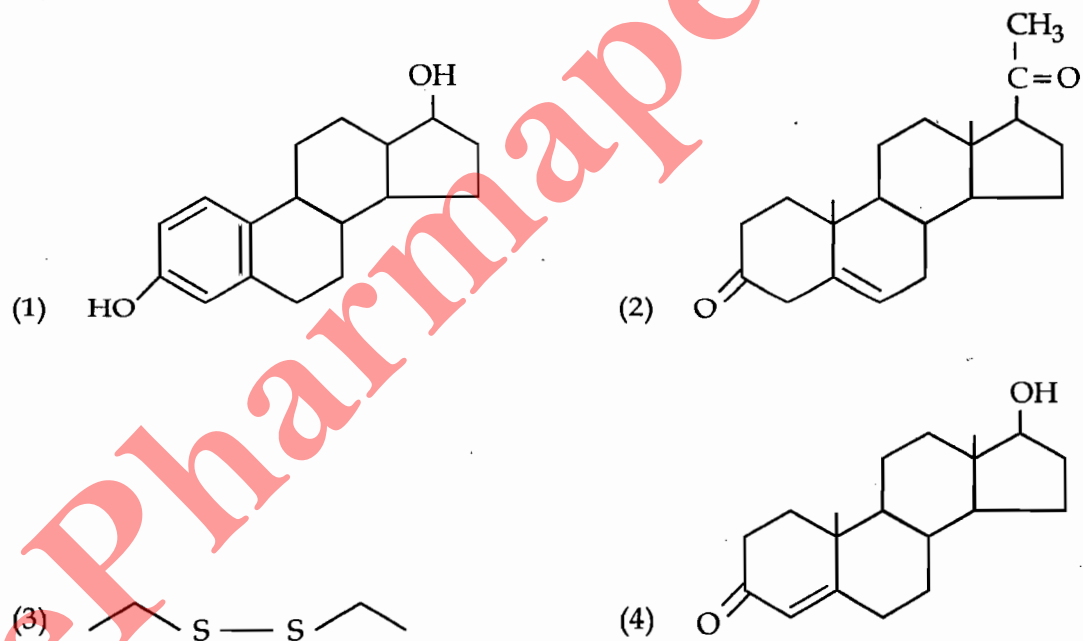
61. Polyamide sutures are \_\_\_\_\_ .

- |                           |                             |
|---------------------------|-----------------------------|
| (1) natural absorbable    | (2) synthetic absorbable    |
| (3) natural nonabsorbable | (4) synthetic nonabsorbable |

62. Morphine can be used for all the following therapeutic purposes except :

- (1) To relieve the pain of myocardial infarction
- (2) To provide sedation and analgesia as a part of 'balanced anaesthesia'
- (3) To relieve cancer pain
- (4) To relieve pain caused by severe head injury

63. Which of the following steroids is progestogenic ?



64. How many 6's are there in the following series of numbers which are preceded by 7 but not immediately followed by 9 ?

6795697687678694677695763

- |         |         |           |          |
|---------|---------|-----------|----------|
| (1) One | (2) Two | (3) Three | (4) Four |
|---------|---------|-----------|----------|

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65. The analysis of biological fluids for sodium, potassium, calcium ions can be done, using :

- (1) Flourimetry (2) Colourimetry  
(3) Flame photometry (4) Potentiometry

66. Which of the following can modify the effect of a drug ?

- (1) Formulation of the drug (2) Age, sex, genetic factors  
(3) Immune status of the patient (4) Excipients in the formulation

67. Which one of these sweeteners is carcinogenic ?

- (1) Saccharin (2) Sucrose (3) Mannitol (4) Glycerine

68. Specific agglutinins of ABO system have the following features, except \_\_\_\_\_ .

- (1) are gamma globulins  
(2) are produced by bone marrow and lymph glands  
(3) are present right at birth  
(4) are produced in people who do not have the respective agglutinin in their RBCs

69. Colloid osmotic pressure of blood is mostly contributed by \_\_\_\_\_ .

- (1) Blood cells (2) Albumin  
(3) Plasma electrolytes (4) Fibrinogen

70. Storage temperature for water for injection is \_\_\_\_\_ .

- (1) R.T. (Room temperature) (2) 50°C  
(3) 80°C (4) 37°C

71. Select the pair that has a relationship similar to that in the original pair.

Original pair



(i)

(ii)

(iii)

(iv)

(1) (i)

(2) (ii)

(3) (iii)

(4) (iv)

72. Which of the following herbs is considered as valuable 'Nutraceutical' ?

- (1) Senna (2) Spirulina (3) Vasaka (4) Bael

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81. The most commonly used vector in Recombinant DNA technology is \_\_\_\_\_ .  
(1) *B. Subtilis* (2) *E. Coli*  
(3) *B. Megaterium* (4) *P. Aeruginosa*
- 
82. The magic remedies Act was passed and enforced in the year \_\_\_\_\_ .  
(1) 1954 (2) 1919 (3) 1930 (4) 1940
- 
83. What is chelating capacity of one hundred milligram of desferrioxamine in terms of milligrams of iron ?  
(1) 4.5 (2) 8.5 (3) 6.5 (4) 10.5
- 
84. A goes 4 km South, then 8 km West, then 6 km North, then 8 km East and then 2 km South. How far is A from the starting point ?  
(1) 2 km (2) 1 km (3) 0 km (4) 3 km
- 
85. The cultivation of opium poppy and production of opium are to be supervised by :  
(1) Narcotics Inspector (2) Drug Controller  
(3) Narcotics Commissioner (4) Narcotics Consultative Committee
- 
86. UV spectroscopy is *not* useful for identification of \_\_\_\_\_ .  
(1) Compounds with double bonds  
(2) Compounds with conjugated double bonds  
(3) Poly-aromatic compounds  
(4) Alkanes
- 
87. If a drug is *not* labelled in prescribed manner, it is known as \_\_\_\_\_ .  
(1) Spurious drug (2) Misbranded drug  
(3) Genuine drug (4) Adulterated drug
- 
88. Which of the following vaccines is included under Universal Immunization Programme but not under Indian Immunisation Schedule ?  
(1) Measles (2) Hepatitis B (3) Hi B (4) Tetanus
- 
89. The molecular weight of any organic compound can be determined by \_\_\_\_\_ spectrometry.  
(1) IR (2) UV (3) NMR (4) MS

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90. Choose the **conclusion** which logically follows from the given **statement**.

**Statement :** All scientists working in America are talented. Some Indian scientists are working in America

**Conclusion :** A) None of Indian scientists is talented  
B) Some talented Indian scientists have migrated to America  
C) All talented scientists are Indians  
D) Some Indian scientists are talented

**The conclusion(s) correctly drawn is/are :**

(1) B and C                      (2) A only                      (3) B and D                      (4) B only

91. Laminar air flow is used for \_\_\_\_\_ .

(1) aseptic technic                      (2) incubation  
(3) fermentation                      (4) detection of specific gravity

92. Aseptic filling of injections is to be carried out in facility complying to grade \_\_\_\_\_ .

(1) A                      (2) B                      (3) C                      (4) D

93. Which of the following vaccines is used as an adjuvant in immunotherapy of cancer ?

(1) BCG                      (2) DPT                      (3) TAB                      (4) Mumps

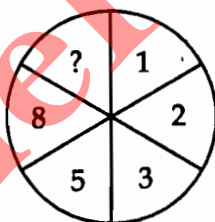
94. The medicinal 'hemp' includes :

(1) Tincture of 'hemp'                      (2) Aerial parts of 'hemp' tree  
(3) Extract of 'hemp'                      (4) All the above

95. To which of these **wavelengths** is the highest bactericidal efficiency of Ultra Violet Rays attributed ?

(1) 2050 °A                      (2) 2650 °A                      (3) 3250 °A                      (4) 3850 °A

96. The missing number in the given figure is \_\_\_\_\_ .



(1) 15                      (2) 13                      (3) 12                      (4) 10

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97. Four groups of letters are given. Three of them are alike in a certain way, while one is different. Choose the odd one.

- (1) BD (2) MP (3) NQ (4) HK

98. Advertisement for a drug, claiming cure for a disease is prohibited for the following diseases, except :

- (1) Cancer (2) Malaria (3) HIV (4) Cough and Cold

99. Which of the following is *not* an indication for imipramine ?

- (1) Enuresis in school children (2) Phobia  
(3) Temporal lobe epilepsy (4) Trigeminal neuralgia

100. Which of the following information is *not* required to be present on the label for whole human blood ?

- (1) The donor classification as 'Voluntary Donor' or 'Replacement Donor'  
(2) The nature and percentage of anticoagulant  
(3) The haemoglobin content  
(4) Results of test for freedom from malarial parasite

101. UV-Radiation lies in the range of :

- (1) 400-650 nm (2) 200-400 nm  
(3) 900-1200 nm (4) 1400 nm and more

102. Which of the following ACE inhibitor has sulfhydryl group ?

- (1) Captopril (2) Enalapril (3) Lisinopril (4) Perindopril

103. Which one of the following perspectives about platelets is likely to be untrue ?

- (1) Non-nucleated (2) Formed in bone marrow  
(3) Can reproduce (4) Liberate platelet factor

104. Following herb is considered as valuable nutraceutical :

- (1) Sanna (2) Ginseng (3) Cinchona (4) Bael

105. Which of the following counting chambers is used to perform Direct Microscopic Count of bacteria with moderate accuracy ?

- (1) Newbar (2) Petroff - Hausser  
(3) Chamberland (4) Hausser - Newbar

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106. Which of the following pair regarding antidote and its indication for use in poisoning is *not correct* ?

- (1) Fluoride : Calcium (2) Fomepizole : Methanol  
(3) Flumazenil : Benzodiazepines (4) Phentolamine : Physostigmine

107. If + means  $\div$ , - means  $\times$ ,  $\div$  means +, and  $\times$  means -, then :  
 $36 \times 12 + 4 \div 6 + 2 - 3 = ?$

- (1) 2 (2) 18 (3) 42 (4)  $6\frac{1}{2}$

108. The position of absorption band in IR spectrum due to hydroxyl group lies between

- (1)  $3200 \text{ cm}^{-1} - 3600 \text{ cm}^{-1}$  (2)  $1600 \text{ cm}^{-1} - 2000 \text{ cm}^{-1}$   
(3)  $2300 \text{ cm}^{-1} - 2600 \text{ cm}^{-1}$  (4)  $300 \text{ cm}^{-1} - 600 \text{ cm}^{-1}$

109. All of the following statements about chancroid are true, except \_\_\_\_\_.

- (1) Multiple painful ulcers (2) Prolong incubation period (1-3 months)  
(3) Suppurative inguinal bubo (4) Caused by haemophilus ducreyi

110. Which of these is not a standards institution ?

- (1) BIS (2) ISO (3) ASTM (4) IDMA

111. If GIVE is coded as 5137 and BAT is coded as 924, how is GATE coded ?

- (1) 5427 (2) 5724 (3) 5247 (4) 2547

112. The site of protein synthesis in cell is :

- (1) Ribosomes (2) Cell-membrane (3) Mitochondria (4) Nucleus

113. Choose out the odd one.

- (1) Lake (2) River (3) Winds (4) Current

114. GMP guidelines for Ayurvedic Medicines are prescribed in \_\_\_\_\_ of D and C Act.

- (1) Schedule T (2) Schedule M (3) Schedule V (4) Schedule P

115. Aspirin poisoning includes the following symptoms except :

- (1) Dehydration (2) Hypothermia  
(3) Metabolic acidosis (4) oliguria

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116. Which of the following drug act by inhibiting GP IIb/IIIa ?

- (1) Ticlopidine      (2) Abciximab      (3) Clopidogrel      (4) Dipyridamole

117. The quantitative analysis by UV spectrophotometry is based on \_\_\_\_\_ .

- (1) Fick's law      (2) Gauss law  
(3) Beer Lambert's law      (4) Charles law

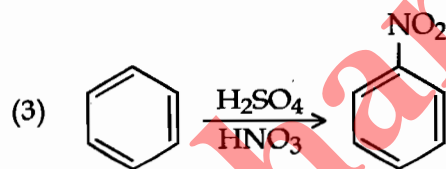
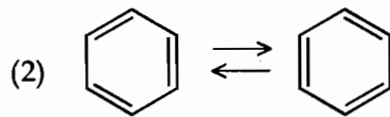
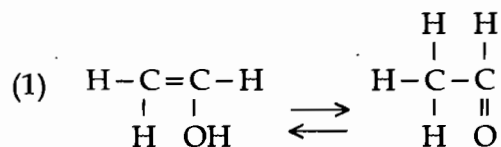
118. The warning "If irritation persists or increases, discontinue use and consult physician" is mentioned on labels of \_\_\_\_\_ .

- (1) Ophthalmic products      (2) Skin creams  
(3) Hair grooming preparations      (4) Antidandruff products

119. Test micro-organism used for microbiological assay of Vitamin B12 is \_\_\_\_\_ .

- (1) lactobacillus leichamannii      (2) lactobacillus casei  
(3) lactobacillus viridescens      (4) lactobacillus plantarum

120. Tautomerism is exemplified by \_\_\_\_\_ .

121. Which of the following statements is correct about Thromboxane A<sub>2</sub> (T<sub>x</sub>A<sub>2</sub>) ?

- (1) T<sub>x</sub>A<sub>2</sub> causes platelet aggregation  
(2) T<sub>x</sub>A<sub>2</sub> is metabolised to prostacyclin  
(3) T<sub>x</sub>A<sub>2</sub> is directly inactivated by aspirin binding  
(4) T<sub>x</sub>A<sub>2</sub> is PGI<sub>2</sub>

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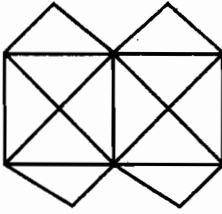
122. The HPTLC system comprises of all the parts, except :  
(1) Scanner (2) Applicator (3) Chamber (TLC) (4) Potentiometer
- 
123. Which of the following is *not* a method of sterilization ?  
(1) Autoclaving (2) Pasteurization  
(3) Tyndallization (4) Heating with a bactericide
- 
124. All the following drugs are 'essential anti-malarial drugs', except \_\_\_\_\_  
(1) Quinine (2) Chloroquine (3) Artesunate (4) Primaquine
- 
125. Measures to control "AIDS" include all except \_\_\_\_\_  
(1) not donating blood  
(2) distribution of condoms by PHC's  
(3) protection during each sexual contact  
(4) disposal of blood and blood-products safely and hygeinically
- 
126. The person in charge of State Drug Laboratory is :  
(1) Drug Controller (2) Government Analyst  
(3) Drug Inspector (4) Chief Chemist
- 
127. Vaccines and Sera are included in \_\_\_\_\_ of D and C Act.  
(1) Schedule C (2) Schedule G (3) Schedule FF (4) Schedule X
- 
128. In patients with renal insufficiency, the adjustment of dose is not critical for \_\_\_\_\_  
(1) Ciprofloxacin (2) Norfloxacin (3) Pefloxacin (4) Ofloxacin
- 
129. \_\_\_\_\_ pathogenic organism is Acid - Fast bacillus.  
(1) Salmonella typhi (2) Vibrio cholerae  
(3) Shigella flexneri (4) Mycobacterium tuberculosis
- 
130. Type I hypersensitivity reactions are usually mediated by \_\_\_\_\_  
(1) IgE antibodies (2) IgG antibodies  
(3) IgM antibodies (4) Macrophages
- 
131. 'Rideal Walker Co-efficient' (RW-Coeff.) is important for labels of \_\_\_\_\_  
(1) Dettol (2) Talcum powder  
(3) Cat-gut (4) Odomos

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132. What is the minimum number of straight lines that is needed to construct the figure ?



- (1) 11                      (2) 13                      (3) 15                      (4) 21

133. DOPP test is used for the evaluation of efficiency of \_\_\_\_\_ .

- (1) Membrane Filters                      (2) Seitz Filters  
(3) G 3 Filters                              (4) HEPA Filters

*Choose the most suitable reaction to the given situation.*

134. If in the examination hall, you find that the question paper is too tough to be answered satisfactorily by you, the best thing to do for you is to \_\_\_\_\_ .

- (1) tell the examiner that the questions are out of course.  
(2) provoke the candidates to walk out of the examination hall.  
(3) try to know something from your neighbour  
(4) try to solve the questions as much as you know with a cool head

135. Schedule V of D and C Act gives the standards for \_\_\_\_\_ .

- (1) Patent and proprietary medicines containing vitamins  
(2) Cosmetic preparations  
(3) Disinfectant fluids  
(4) Contraceptives

136. Charaff's rule of base equivalence for DNA states that :

- (1)  $A+T=U+G$     (2)  $T+G=T+C$     (3)  $A+C=T+G$     (4)  $C+A=D+E$

137. Choose the one which is different from the rest three.

- (1) 7                      (2) 15                      (3) 31                      (4) 57

138. Which letter will replace the question mark ( ? )

J L N P R T ?

- (1) S                      (2) U                      (3) V                      (4) W

139. Which of the following pollutants produces pulmonary oedema and death ?

- (1) Carbon dioxide                      (2) Carbon monoxide  
(3) Sulfur dioxide                      (4) Ozone

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140. Multiple, superficial, grouped erosions over genitals are due to \_\_\_\_\_.

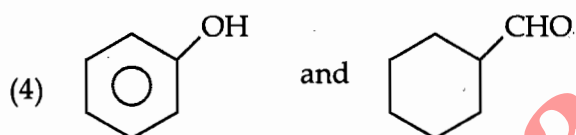
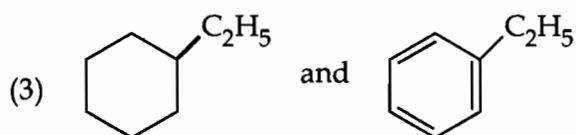
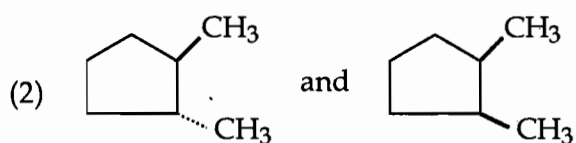
- (1) Chancroid (2) Syphilis  
(3) Condyloma accuminata (4) Herpes genitalis

141. Vitamin K is necessary for \_\_\_\_\_.

- (1) prevention of rickets (2) formation of prothrombin  
(3) prevention of night blindness (4) formation of DNA

142. Which of the following pair indicate isomers ?

- (1)  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$  and  $\text{CH}_3\text{CH}_2\text{CH}_3$



143. HIV infection predominant in India, is :

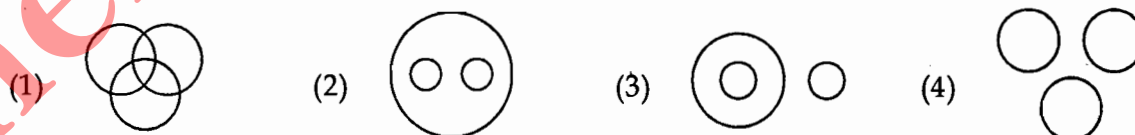
- (1) HIV 1a (2) HIV 1b (3) HIV 1c (4) HIV 1e

144. Which of the following is not a type of Industrial Intellectual property ?

- (1) Patents (2) Trademarks  
(3) Copyright (4) Industrial designs

145. Find out which of the alternative indicates the correct relationship between the given words :

Triangle, Four sided figure, Square.



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146. Which of the following does not belong to the 5 - alpha series ?

- (1) Androgens (2) Estrogens (3) Progesterone (4) Bile acids

147. Baker's yeast is the common name for \_\_\_\_\_ .

- (1) Bacillus subtilis (2) Lactobacillus acidophilus  
(3) Saccharomyces cerevisiae (4) Candida albicans

148. DHO (District Health Officer) is responsible for enforcement of one of the following programmes :

- (1) NAMP - National Anti-malaria Programme  
(2) NLEP - National Leprosy Eradication Programme  
(3) NMHP - National Mental Health Programme  
(4) NWSS - National Water Supply and Sanitation

149. Which one of these antileprotic drugs possesses anti inflammatory action ?

- (1) Dapsone (2) Clofazimine (3) Rifampicin (4) Ethionamide

150. Rideal Waltz Co-efficient (RWC) is to be stated on labels of \_\_\_\_\_ .

- (1) Antibiotic preparations (2) Disinfectant fluids  
(3) Sunscreen preparations (4) Shampoo formulations

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