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**Maharashtra
Health Department
Group C**

**Previous Year Paper
(Pharmacy Officer)
28 Feb, 2021**





सार्वजनिक आरोग्य विभाग परिक्षा
महाराष्ट्र शासन
प्रश्नपुस्तिका



Test Booklet No.: 09006
प्रश्नपुस्तिका क्रमांक

Test Booklet Code

B

Post Code: 09 \ Pharmacy Officer

Answer sheet No.:

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Total Questions: 100

Total Marks: 200

Time: 2 Hours

Name and
Signature of the Candidate

Signature of the Invigilator

IMPORTANT INSTRUCTIONS
महत्वाच्या सूचना

1. The test is of 2 hours duration and Questions Booklet contains 100 questions. Each question carries 02 mark. For each correct response, the candidate will get 02 mark.	१. परिक्षेसाठी २ तासांची वेळ आहे. प्रश्न पुस्तिकेमध्ये १०० प्रश्न आहेत. प्रत्येक प्रश्नासाठी दोन गुण आहे. प्रत्येक अचूक उत्तरास दोन गुण मिळेल.
2. Use Blue/Black Ball point Pen only for writing particulars on this page or marking responses.	२. या पानावर तपशील लिहिण्यासाठी अथवा चिन्हांकित करण्यासाठी निळा/काळा बॉलपाईट पेन वापरा.
3. Rough work is to be done on the space provided for this purpose in the Questions Booklet only.	३. कच्चे काम करावयाचे असल्यास त्यासाठी याच प्रश्न पुस्तिकेमध्ये उपलब्ध केलेल्या स्वतंत्र जागेचा उपयोग करावा.
4. On completion of the test, the candidate must handover the Answer Sheet to the Invigilator before leaving the Examination Hall. The candidates are allowed to take away this Questions Booklet with them after examination is over.	४. परिक्षा पूर्ण झाल्यानंतर उमेदवाराने परिक्षाकेंद्र सोडण्यापूर्वी उत्तर पत्रिका समावेशकांकडे जमा करणे बंधनकारक आहे. मात्र प्रश्नपुस्तिका उमेदवाराना बरोबर घेऊन जाण्याची परवानगी आहे.
5. The candidates should ensure that Answer Sheet is not folded. Do not make any stray marks on the Answer Sheet. Do not write your Roll No. Anywhere else except in the specified space in the Questions Booklet and Answer Sheet.	५. उमेदवाराने उत्तरपत्रिकेच्या घड्या घालू नयेत. उत्तरपत्रिकेवर उत्तराचे गडद केलेले फक्त एकच वर्तुळ सोडून इतर कोणत्याही प्रकारच्या खाणा-खुणा करू नयेत. प्रश्नपुस्तिका व उत्तरपत्रिकेवरील निर्देशित केलेल्या ठिकाणीच आपला रोल नंबर लिहावा.
6. Each candidate must show his/her Admit Card/Hall Ticket to invigilator whenever demanded.	६. परीक्षा केंद्रावरील समावेशकांनी मागणी केल्यानंतर उमेदवारानी प्रवेशपत्र दाखवावे. (Admit Card/Hall Ticket)
7. No candidate should leave his / her seat without special permission of the Invigilator/Supervisor.	७. परीक्षा केंद्रा वरिल समावेशक अथवा पर्यवेक्षक यांच्या विशेष परवानगी शिवाय कोणत्याही उमेदवारास आपली जागा अथवा परीक्षा कक्ष सोडता येणार नाही.
8. Use of Electronic/Manual Calculator is prohibited	८. इलेक्ट्रॉनिक/मॅन्युअल कॅल्क्युलेटर यांचा वापर करण्यास सक्त मनाई आहे.
9. The candidates are governed by all Rules and Regulations of the examination with regard to their conduct in the Examination Hall. All cases of unfair means will be dealt with the rules & regulations of this examination.	९. उमेदवारांनी परिक्षे संबंधी लागू असणा-या सर्व नियमांचे पालन करणे बंधनकारक राहिल. आचारसंहितेचा भंग केल्यास नियमानुसार कारवाई करण्यात येईल.
10. No part of Booklet and Answer Sheet shall be detached under any circumstances.	१०. परीक्षा पूर्ण होईपर्यंत कोणत्याही परिस्थितीत प्रश्नपत्रिका तसेच उत्तरपत्रिका यांची पाने वेगळी करू नयेत.

- 11) सर्वनाम हे.....
 A. पदार्थाचे नाव सांगते.
 B. नामाबद्दल विशेष माहिती सांगते.
 C. क्रिया दाखवून वाक्याचा अर्थ पुरा करते.
 D. नामाएवजी येते

- 12) उभयविध क्रियापद म्हणजे काय ?
 A. दोन क्रियापदे एकत्र येतात.
 B. वाक्यातील क्रियापद सकर्मक असते.
 C. वाक्यातील क्रियापद अकर्मक असते.
 D. क्रियापद सकर्मक व अकर्मक अशा दोन्ही प्रकारे वापरता येते.

- 13) खाली दिलेल्या शब्दांपैकी क्रियापद कोणते ते ओळखा.
 A. माणूस
 B. माणुसकी
 C. माणसाळणे
 D. माणूसपण

- 14) 'पावसासोबत गारा पडतील' या विधानातील काळ ओळखा.
 A. रीति भविष्यकाळ
 B. अपूर्ण भविष्यकाळ
 C. पूर्ण भविष्यकाळ
 D. संभवसूचक भविष्यकाळ

- 15) लिपी म्हणजे काय ?
 A. लिपणे म्हणजे लिपी
 B. सारवणे म्हणजे लिपी
 C. आपण जी भाषा बोलतो त्याला लिपी म्हणतात
 D. आपण ज्या खुणांनी लिखाण करतो त्याला लिपी म्हणतात

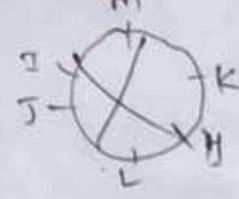
- 16) B, E, H, K, N, ??
 A. Q, S
 B. P, T
 C. Q, T
 D. P, R

- 17) Pick the odd one
 A. Teacher
 B. Parent
 C. School
 D. Student

- 18) Rahul ranks seventeenth from the top and fifty-ninth from the bottom in a class. How many students are there in the class?
 A. 62
 B. 57
 C. 73
 D. 75

$$\begin{array}{r} 17 \\ 59 \\ \hline 76 \end{array}$$

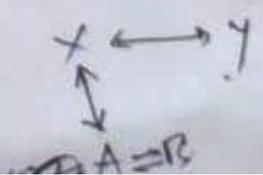
- 19) Six persons H, I, J, K, L and M are standing in a circle. I is between M and J, H is between L and K. M is the left of K. Who is between H and M?
 A. K
 B. I
 C. L
 D. J



- 20) Ramesh is younger than Suresh by 9 years. If their ages are in the respective ratio of 7:9, how old is Ramesh?
 A. 31.5 years
 B. 33.5 years
 C. 24.5 years
 D. 36.5 years

$$\begin{array}{l} 70 : 90 \\ 35 : 45 \\ 18 : 22 \end{array}$$

- 21) X and Y are a married couple and A and B are the brothers. A is the brother of X. How is B related to Y?
 A. Sister-in-law
 B. Son-in-law
 C. Brother-in-law
 D. Brother



- 1) खालील शब्दातील गुणविशेषण दर्शविणारे विधान कोणते?
- A. कडू कारले ✓
 B. दहा लिटर दूध
 C. अर्धा मीटर कापड
 D. पुष्कळ धान्य
- 2) 'शांतारामने खूप अभ्यास केला, परंतु त्याला परीक्षेत यश मिळाले नाही.' या वाक्यातील 'परंतु' हे कोणते अव्यय म्हणून मराठी व्याकरणात मानले जाते?
- A. समुच्चयबोधक उभयान्वयी अव्यय
 B. विकल्पबोधक उभयान्वयी अव्यय
 C. न्यूनत्वबोधक उभयान्वयी अव्यय
 D. संकेतबोधक उभयान्वयी अव्यय
- 3) संयुक्त वाक्य ओळखा.
- A. लोक आपली स्तुती करतात म्हणून निंदा करतात.
 B. लोक आपली स्तुती करोत किंवा लोक आपली निंदा करोत.
 C. लोकांनी आपली स्तुती, निंदा करावी.
 D. लोक आपली स्तुती करतात कारण निंदाही करतात.
- 4) खालील चिन्हापैकी अर्धविराम चिन्ह ओळखा.
- A. ?
 B. !
 C. :
 D. ;
- 5) पुढील वाक्याच्या शेवटी योग्य विरामचिन्ह निवडा - 'केवढी शुभवार्ता आणलीस तू'
- A. ,
 B. .
 C. ?
 D. !
- 6) 'कोटि + अवधि' हा कोणत्या संधीयुक्त शब्दाचा विग्रह आहे?
- A. कोटयावधी
 B. कोटयवधी
 C. कोटयावधि
 D. कोटयवधि
- 7) पाण्याचा.....
- A. खळखळाट
 B. गडगडाट
 C. खणखणाट
 D. छनछनाट
- 8) 'इच्छिलेली वस्तू देणारे झाड' या शब्दसमूहासाठी खालीलपैकी योग्य शब्द निवडा.
- A. कामधेनू
 B. चिंतामणी
 C. देवगाय
 D. कल्पवृक्ष
- 9) खालील वाक्यात योग्य शब्दाचा वापर करा. चरख्याच्या साहाय्याने _____ कातून श्रम आणि कौशल्य यांचा त्यांनी मेळ साधला.
- A. सूत
 B. सुत
 C. सुत्त
 D. यापैकी नाही
- 10) 'ओढा' शब्दाचे लिंग ओळख.
- A. पुल्लिंग
 B. स्त्रीलिंग
 C. नपुंसक लिंग
 D. यापैकी नाही

- 46) Identify the type of word
"I'm frightened," she said nervously
- A. Preposition
 B. Adjective
 C. Verb
 D. Adverb
- 47) Choose the correct sentence.
- A. The costs of all necessities has gone up.
 B. The cost of all necessities has gone up.
 C. The cost of all necessities have gone up.
 D. The costs of all necessities have went up.
- 48) Complete the sentence with the correct alternative.
She is _____ well today.
- A. no
 B. not
 C. none
 D. nought
- 49) Choose the correct indirect form of given sentence.
She said, "Don't tease my dog."
- A. She said that don't tease her dog.
 B. She said not to tease my dog.
 C. She warned them not to tease her dog.
 D. She enquired if they were not teasing her dog.
- 50) Give antonym of: 'Attack'
- A. Counter attack
 B. Defend
 C. To fight
 D. Re attack
- 51) Select one word for the following phrase :
A person who believes in the existence of God.
- A. Theist
 B. Atheist
 C. Septic
 D. Fanatic
- 52) Choose the correct meaning of the given idiom:
A bolt from the blue -
- A. something unexpected
 B. an event happening rarely or never
 C. an obscene or pornographic film
 D. to be in state of being sad or miserable
- 53) 'Snail Mail' means
- A. mail that takes very long time to reach it's destination.
 B. spam mail
 C. virus that hacks the information
 D. none of these
- 54) Select the correct spelling from the following
- A. Humorous
 B. Hummorus
 C. Humorus
 D. Humrouis
- 55) Meaning of "Chicken Feed".
- A. A very small money
 B. A huge money
 C. Food for thought
 D. None of these
- 56) Synonym of Abrogate
- A. Create
 B. Run
 C. Fascinate
 D. Abolish
- 57) Choose the word spelt correctly.
- A. Criticice
 B. Criticael
 C. Criticise
 D. Criticese
- 58) He is true _____ his words.
- A. with
 B. on
 C. to
 D. for
- 59) You can pick _____ of two.
- A. many
 B. more
 C. either
 D. some
- 60) _____ sun is about to set.
- A. A
 B. An
 C. The
 D. A little

- 32) Arrange the following layers of atmosphere vertically from the surface of the Earth
- 1) Mesosphere
 - 2) Troposphere
 - 3) Stratosphere
 - 4) Thermosphere
- Select the correct answer using the sequence given below :
- A. 1-2-3-4
 - B. 2-1-3-4
 - C. 2-3-1-4
 - D. 3-4-2-1
- 33) Which one among the following cities never get the vertical rays of the Sun through out the year
- A. Chennai
 - B. Mumbai
 - C. Kolkata
 - D. Srinagar
- 34) Who constructed Sanchi Stupa ?
- A. Chandragupta
 - B. Kautilya
 - C. Gautam Buddha
 - D. Ashok
- 35) Soil erosion can be prevented by
- A. Increasing bird population
 - B. Afforestation
 - C. Removal of vegetation
 - D. Overgrazing
- 36) Ashtapradhana was the official council of -
- A. Harihar - I
 - B. Krishnadeva Raya
 - C. Shivaji Maharaj
 - D. Balaji Baji Rao
- 37) Sarva Siksha Abhiyan is aimed at the education of which of the following -
- A. Engineering and technical education
 - B. Education of girls upto graduation level
 - C. Adult Education
 - D. Education of children between 6-14 years
- 38) is the hottest planet in the solar system :
- A. Mercury
 - B. Earth
 - C. Mars
 - D. Venus
- 39) Which of following river originates at Trimbakeshwar ?
- A. Godavari
 - B. Kaveri
 - C. Krishna
 - D. Mahanadi
- 40) The Musi and Bhima are tributaries of the river -
- A. Mahanadi
 - B. Krishna
 - C. Kaveri
 - D. Brahmaputra
- 41) Cloud burst' means
- A. Sowing of seeds of a crop in cloudy weather
 - B. Formation of artificial rain
 - C. Abnormally heavy downpour of rain, associated with a thunderstorm
 - D. Presence of scattered flakes of cloud in the sky
- 42) India is separated from Sri Lanka by -----
- A. Palk Strait
 - B. 90 channel
 - C. 100 channel
 - D. Dover Strait
- 43) Which is the official language of Maharashtra?
- A. Marathi
 - B. Sanskrit
 - C. Gondi
 - D. Konkani
- 44) Who was the first Peshwa of the Maratha Empire
- A. Balaji Vishwanath
 - B. Raghunath - Rao
 - C. Mahadev-Rao I
 - D. Moropant Trimbak Pingle
- 45) The Nagpur city is also known as the — city of India
- A. Orange
 - B. Apple
 - C. Mango
 - D. Banana

22) Ram and Shyam are brothers. Ritu and Nita are sisters. Ram's son is Nita's brother. How is Shyam related to Ritu?

- A. Uncle
- B. Brother
- C. Father
- D. Friend



27) Amol is an inspection incharge rejects 0.08% of the items as defective. How many will he examine to reject 4?

- A. 3200
- B. 5000
- C. 4000
- D. 4500

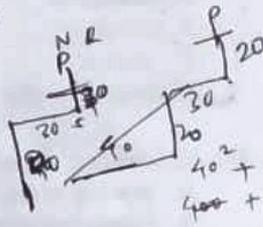
$$4 = 0.08 \times \frac{x}{100}$$

$$\frac{400}{0.08} = x$$

$$5000 = x$$

23) Starting from a point 'P', Sohan walked 20 metres towards South. He turned left and walked 30 metres. He then turned left and walked 20 metres. He again turned left and walked 40 metres and reached a point. How far and in which direction is the point Q from the point P?

- A. 10 m., West
- B. 10 m., East
- C. 20 m., West
- D. 20 m., East



28) The total population of Varud village in Kolhapur district of Maharashtra is 5000. The number of males and females increases by 10% and 15% respectively and consequently the population of the village becomes 5700. What was the number of males in the village?

- A. 2000
- B. 2500
- C. 1000
- D. 3000

$$5000 \times 1.1 \times 1.15 = 5700$$

$$5000 \times 1.2675 = 5700$$

$$5000 \times \frac{12675}{10000} = 5700$$

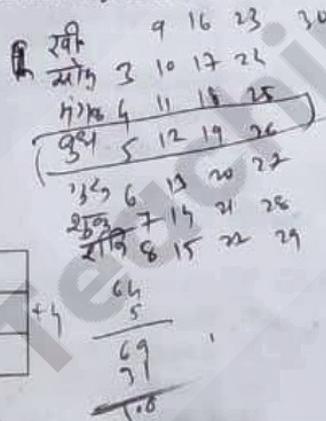
$$5000 \times \frac{51}{40} = 5700$$

$$5000 \times \frac{51}{40} = 5700$$

$$5000 \times \frac{51}{40} = 5700$$

24) If the 3rd day of a month is Monday, which one of the following will be the fifth day from 21st of this month

- A. Monday
- B. Tuesday
- C. Wednesday
- D. Friday



29) Salaries of Rohan and Nishant are in the ratio 2 : 3. If the salary of each is increased by Rs.5000, the new ratio becomes 40 : 57. What is Nishant's salary?

- A. Rs.48,000
- B. Rs.42,000
- C. Rs.46,000
- D. Rs.47,500

$$10 : 14$$

25)

1	45	?
29	30	64
70	25	5

- A. 31
- B. 21
- C. 11
- D. None of these

$$\frac{64}{5} = \frac{64}{5}$$

$$\frac{64}{5} = \frac{64}{5}$$

$$\frac{64}{5} = \frac{64}{5}$$

30) A man purchase five oranges for Rs.4 and sold them at the rate of 4 oranges for Rs.5, The profit is

- A. 30.25%
- B. 40%
- C. 44.25%
- D. 56.25%

26) The cost of 5 chairs and 3 tables is Rs.3110. Cost of 1 chair is Rs.210 less than the cost of 1 table. What is the cost of 2 tables and 2 chairs.

- A. Rs.1660
- B. Rs.1860
- C. Rs.2600
- D. Cannot be determined

$$5C + 3T = 3110$$

$$T = 3110 - 5C$$

$$1C = 210$$

31) The religious literature of the Jains at the early stage was written in

- A. Ardhamagadhi
- B. Pali
- C. Sanskrit
- D. None of these

73. Pharmacokinetics is:
- The study of biological and therapeutic effects of drugs
 - The study of absorption, distribution, metabolism and excretion of drugs
 - The study of mechanisms of drug action
 - The study of methods of new drug development
74. A hydrophilic medicinal agent has the following property:
- Low ability to penetrate through the cell membrane lipids
 - Penetrate through membranes by means of endocytosis
 - Easy permeation through the blood-brain barrier
 - High reabsorption in renal tubules
75. What does the term "bioavailability" mean?
- Plasma protein binding degree of substance
 - Permeability through the brain-blood barrier
 - Fraction of an uncharged drug reaching the systemic circulation following any route of administration
 - Amount of a substance in urine relative to the initial dose
76. Which route of drug administration is most likely to lead to the first-pass effect?
- Sublingual
 - Oral
 - Intravenous
 - Intramuscular
77. Parenteral administration:
- Cannot be used with unconsciousness patients
 - Generally results in a less accurate dosage than oral administration
 - Usually produces a more rapid response than oral administration
 - Is too slow for emergency use
78. The term "biotransformation" includes the following:
- Accumulation of substances in a fat tissue
 - Binding of substances with plasma proteins
 - Accumulation of substances in a tissue
 - Process of physicochemical and biochemical alteration of a drug in the body
79. Half life ($t_{1/2}$) is the time required to:
- Change the amount of a drug in plasma by half during elimination
 - Metabolize a half of an introduced drug into the active metabolite
 - Absorb a half of an introduced drug
 - Bind a half of an introduced drug to plasma proteins
80. The substance binding to one receptor subtype as an agonist and to another as an antagonist is called:
- Competitive antagonist
 - Irreversible antagonist
 - Agonist-antagonist
 - Partial agonist
81. What term is used to describe a decrease in responsiveness to a drug which develops in a few minutes?
- Refractoriness
 - Cumulative effect
 - Tolerance
 - Tachyphylaxis
82. What does the term "potentiation" mean?
- Cumulative ability of a drug
 - Hypersensitivity to a drug
 - Fast tolerance developing
 - Intensive increase of drug effects due to their combination

83. Indicate the local anesthetic agent, which has a shorter duration of action:
- A. Lidocaine
 - B. Procaine
 - C. Bupivacaine
 - D. Ropivacaine
84. Which of the following drugs is both a muscarinic and nicotinic blocker?
- A. Atropine
 - B. Benztropine
 - C. Hexamethonium
 - D. Succinylcholine
85. Which of the following effects is related to direct beta 1-adrenoreceptor stimulation?
- A. Bronchodilation
 - B. Vasodilatation
 - C. Tachycardia
 - D. Bradycardia
86. Which of the following antiseizure drugs is also effective in treating trigeminal neuralgia?
- A. Primidone
 - B. Topiramate
 - C. Carbamazepine
 - D. Lamotrigine
87. Which of the following agents is an inhibitor of aldehyde dehydrogenase?
- A. Fomepizole
 - B. Ethanol
 - C. Disulfiram
 - D. Naltrexone
88. Mu (μ) receptors are associated with:
- A. Analgesia, euphoria, respiratory depression, physical dependence
 - B. Spinal analgesia, mydriasis, sedation, physical dependence
 - C. Dysphoria, hallucinations, respiratory and vasomotor stimulation
 - D. Analgesia, euphoria, respiratory stimulation, physical dependence
89. For which of the following conditions could aspirin be used prophylactically?
- A. Noncardiogenic pulmonary edema
 - B. Peptic ulcers
 - C. Thromboembolism
 - D. Metabolic acidosis
90. Which of the following antidepressants is a selective serotonin reuptake inhibitor?
- A. Phenelzine
 - B. Desipramine
 - C. Maprotiline
 - D. Fluoxetine
91. Anxiolytics are used to treat:
- A. Neurosis
 - B. Psychosis
 - C. Narcolepsy
 - D. Bipolar disorders
92. Restlessness, anxiety, orthostatic hypotension, generalized seizures, severe tremor, vivid hallucination, and psychosis are possible symptoms of:
- A. Tolerance
 - B. Withdrawal
 - C. Drug interactions between barbiturate and diazepam
 - D. None of the above
93. Following drugs stimulate erythropoiesis EXCEPT:
- A. Iron dextran
 - B. Vitamine B12
 - C. Methotrexate
 - D. Folic acid
94. The drug used as an oral anticoagulant:
- A. Heparin
 - B. Daltreparin
 - C. Dicumarol
 - D. Enoxaparin

61. Choose the selective blocker of beta-1 adrenoreceptors:
- A. Labetalol
 - B. Prazosin
 - C. Atenolol
 - D. Propranolol
62. All of the following statements regarding vasodilators are true EXCEPT:
- A. Hydralazine causes tachycardia
 - B. Nifedipine is a dopamine receptor antagonist
 - C. Nitroprusside dilates both arterioles and veins
 - D. Minoxidil can cause hypertrichosis
63. Which of the following hormones is produced by the anterior lobe of the pituitary?
- A. Thyrotropin-releasing hormone (TRH)
 - B. Corticotropin-releasing hormone (CRH)
 - C. Growth hormone (GH)
 - D. Insulin
64. The following adverse effect of corticosteroids is due to their mineralocorticoid action
- A. Osteoporosis
 - B. Rise in blood pressure
 - C. Moon face
 - D. Increased susceptibility to infection
65. Which of the following opioids is more potent than morphine?
- A. Pethidine
 - B. Fentanyl
 - C. Dextropropoxyphene
 - D. Tramadol
66. 5-HT produces contraction of smooth muscle and platelet aggregation via _____ receptors
- A. 5-HT1
 - B. 5-HT2
 - C. 5-HT3
 - D. 5-HT4
67. Select the drug which is neither analgesic, nor antiinflammatory nor uricosuric, but is highly efficacious in acute gout
- A. Prednisolone
 - B. Colchicine
 - C. Naproxen
 - D. Sulfinpyrazone
68. Gold in rheumatoid arthritis
- A. Can cause regression of degenerative lesions of this disease
 - B. Can reduce the concentrations of rheumatoid factor
 - C. Does not halt the progress of the disease
 - D. Is employed as first line therapy
69. Which of the following is a female sex hormone?
- A. Stilbesterol
 - B. Testosterone
 - C. Estrogen
 - D. Benzesterol
70. Chloroquine is a:
- A. 4-Amino Quinoline
 - B. Acridine
 - C. Biguanide
 - D. Pyrimidine
71. A naturally occurring carminative is:
- A. Asafoetida
 - B. Asoka
 - C. Arjuna
 - D. Agar
72. The meaning of Latin term Rx:
- A. Take thou
 - B. when necessary
 - C. send
 - D. Write

95. A chelating agent used in the case of acute iron poisoning is:

- A. Sodium phosphate
- B. Dimercaprol
- C. Ferriin
- D. Deferoxamine

96. Ocuserts are:

- A. Ear preparations
- B. Nasal preparations
- C. Oral preparations
- D. Eye preparations

97. An example of sulfonyl urea is:

- A. Metformin
- B. Tolbutamide
- C. Rosiglitazone
- D. Repaglinide

98. The DPO (Drug Price Control Order) was exercised by central government in:

- A. 1985
- B. 1995
- C. 1987
- D. 1997

99. A non-drug part added to formulation to aid dilution, stability maintaining, taste masking etc. is known as:

- A. Presensitive
- B. Active ingredient
- C. Additive
- D. Binding agent

100. The powerhouse of the cell is:

- A. Golgi bodies
- B. Mitochondria
- C. Ribosomes
- D. Nucleus

Rough Work