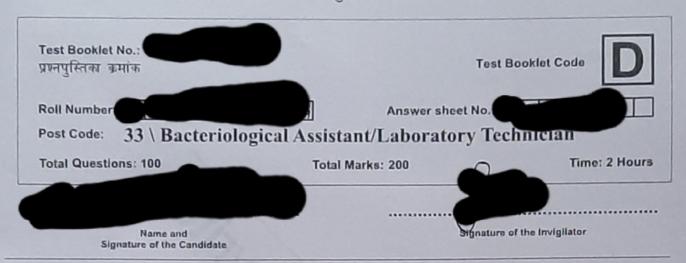


सार्वजनिक आरोग्य विभाग परिक्षा महाराष्ट्र शासन प्रक्षपुस्तिका





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. परिशेसाठी २ तासांची वेळ आहे. प्रम्न पुस्तिकेमध्ये १०० प्रका आहेत. प्रत्येक प्रम्नासाठी 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 वॉलपाईट पेन वापरा.
Rough work is to be done on the space provided for this purpose in the Questions Booklet only.	 कच्चे काम करावयाचे असल्यास त्यासाठी याच प्रश् 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 झात्यानंतर उगेदवाराने परिक्षाकें सोडण्यापूर्वी उत्तर पत्रिका समावेशकांकडे जमा करणे बंधनकारक आहे. मात्र प्रश्नपुस्तिका उमेदवाराना बरोबन घेजन 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 बर्तुळ सोडून इतर कोणत्याही .प्रकारच्या खाणा-खुणा करु नयेत प्रकापुस्तिका 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 प्रवेषपत्र दाखवावे. (Admit Card/Hall Ticket)
 No candidate should leave his / her seat without special permission of the Invigilator/Supervisor. 	 परिक्षा केंद्रा वरिल समावेक्षक अथवा पर्यवेक्षक यांच्या विशेष परवानगी शिवाय कोणत्याही उमेदवारास आपली जागा अथवा परिक्षा कक्ष सोडता येणार नाही.
8. Use of Electronic/Manual Calculator is prohibited	८. इलेक्ट्रॉनिक/मॅत्युअल 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 राहील. आचारसंहितेचा भंग केल्यास नियमानुसार कारवाई करण्यात वेईल.
10. No part of Booklet and Answer Sheet shall be detached under any circumstances.	१०. परिक्षा पुर्ण होईपर्येत कोणत्याही परिस्थितीत प्रकापत्रिका तसेच उत्तरपत्रिका यांची पाने वेगळी करु नयेत.

SE

1)	What is the full form of AD, used with dates?	9)	Thar Desert is situated in -
,	A. Anno Domini	"	A. Rajasthan
	B. Assistant Director		B. West Bengal
	C. Aknowledgement Due		C. Tamilnadu
	D. After Date		
			D. Uttarakhand
2)	Which of the following planets of our solar system has least mass?		and the state of t
	A. Neptune	10)	Which of the following is the highest mountain
	B. Jupitar		peak in Maharashtra?
	C. Mars		A. Taramati
	D. Mercury		B. Anjaneri
			C. Salher
3)	Ozone gas is present in which layer of atmosphere? A. Stratosphere		D. Kalsubai
	B. Troposphere	110	National Rural Health Mission (NRHM) was
	C. Ionosphere	,	launched in the year:
	D. Mesosphere		A. 2003
	Wa 1 2 1 W 1 1 1 1 2		B. 2004
4)	Who built the Khajuraho temples? A. Holkars		
	B. Scindias		C. 2005
	C. Bundela		D. 2006
	D. Chandela		U. 1.1. (I. 3.1 SI-1:-19
		12)	Who was called the 'Iron Man of India'?
5)	At which the following places is the famous		A. Sardar Ballabhbhai Patel
	Kailasha Temple located?		B. Surendranath Bannerjee
	A. Ajanta B. Badami		C. Bipin Chandra Pal
	C. Chittor		D. Lala Lajpat Rai
	D. Ellora		
		13)	Which sea is to the west of Maharashtra?
6)	Which of the following is NOT a Union Territory?		A. Black
	A. Goa		B. Arabian
	B. Lakshadweep		C. Labrador
	C. Dadar and Nagar Haveli		D. Timor
	D. Chandigarh		
7)	How many spokes are there in the Dharma Chakra	14)	Marathi Language Day is Celebrated on
')	(Ashok Chakra) depicted on the National Flag of		A. 15th February
	India?		B. 7th February
	A. 16		C. 20th February
	B. 20		•
	C. 24		D. 27th February
	D. 32	1.5	
3)	The headquarter of RBI is situated at:	15)	The river Koyna joins the river Krishna at—
,	A. Delhi		A. Satara
	B. Kolkata		B. Karad
	C. Chennai		C. Kolhapur
	D. Mumbai		D. Mahabaleshwar
		3 S	Set - D (Bacteriological Assistant/Laboratory Technician

- 16) A bag contains 7 blue balls and 5 yellow balls. If two balls are selected at random, what is the probability that none is yellow?
 - A. 5 33
 - B. 5 22
 - 22
 - D. 7 33
- 17) Damodar is 26 years older than his son. In four years, his age will be twice the age of his son. The present age of his son is:
 - A. 16 years
- B. 18 years C. 20 years
- D. 22 years
- 18) Introducing a girl, Niraj said, 'Her mother is the only daughter of my mother-in-law'. How is Niraj related to the girl?
 - A. Husband
 - B. Brother
 - C. Father
 - D. Uncle
- 19) Covid-19 is caused by
 - A. Bacteria
 - B. Parasite
 - C. Virus
 - D. Fungus
- 20) Madhuri, who is facing South turns to her left and walks 15 metres, then she turns to her left and walks 7 metres, then facing west she walks 15 metres. How far is she from her original position?
 - -A. 7m
 - B. 10 m
 - C. 5 m
 - D. 8 m
- Set D (Bacteriological Assistant/Laboratory Technician)

- 21) If Sunday falls on 30th April, what day would be on 31st May?
 - A. Saturday
 - B. Sunday
 - C. Monday
 - D. Wednesday

22)	6	6	8
	5	7	5
1	4	3	?
	120	126	320

- A. 12
- B. 8
- C. 14
- D. 16
- 23) Deepak has some hens and some goats. If the total number of animal heads is 90 and the total number of animal feet is 248, what is the total number of goats Deepak has?
 - A. 32
 - B. 36
 - C. 34
 - D. Cannot be determined
- 24) In class the average age of 75 students is 7 years. If along with the class teacher, the average is 7.5 years. What is the age of teacher age?
 - A. 37.5 years
 - B. 45 years
 - C. 42 years
 - D. 39 years
- In a factory of 140 machine parts, 5 percent were defective. In a factory of 80 machine parts, 10 percent were defective. For the two factory combined, what percent of the machine parts were defective?
 - A. 6.50%
 - B. 7%
 - C. 7.50%
 - D. 8%

- 26) The correct sequence of communication is
 - A. Message Sender Receiver
 - B. Message Receiver Sender
 - C. Sender Message Receiver
 - D. Receiver Sender Message
- 27) AB, DE, GH, 7, MN
 - A. IJ
 - B. HI
 - C. JK
 - D. None
- 28) Pick the odd one
 - A. Bengali
 - B. Marathi
 - C. English
 - D. Kannad
- 29) In a row of trees, one tree is seventh from either end of the row. How many trees are there in the row?

1111110111111

- A. 8
- B. 13
- C. 14
- D. 11
- 30) In a class of 45 students, a boy is ranked 20th.

 When two boys joined, his rank was dropped by one. What is his new rank from the end?
 - A. 25th
 - 1B. 26th
 - C. 27th
 - D. 28th



- 31) अशुध्द शब्द ओळखा
 - A. तथापि
 - в. परंतु
 - C. आणि
 - D. यापैकी नाही

- 32) 'दुभत्या गाईच्या लाथा गोड' या म्हणीचा अर्थ खालीलपैकी कोणता?
 - A. दुभत्या गाईची लाथ लागत नाही.
 - B. फायदयासाठी अपमान सहन करणे.
 - C. अडथळे आले तरी प्रयत्न करावा.
 - D. दुभत्या गाईच्या लाथा खाणे.
 - 33) 'अर्थ नसणे' या अर्थाचा योग्य वाकप्रचार कोणता?
 - A. गाशा गुंडाळणे
 - B. फुगडी घालणे
 - C. वा-यावर सोडणे
 - D. राम नसणे
 - 34) 'कृपण' या शब्दाच्या विरुध्दार्थी शब्द ओळखा
 - A. उदार
 - B. कृतघ्न
 - C. गरीब
 - D. अपूर्व
 - 35) गटात न बसणारा शब्द ओळखा?
 - A. सूत
 - B. भ्राता
 - C. बंघू
 - D. भाऊ
 - 36) रामबाण
 - A. अचूक गुणकारी
 - B. रामाचा बाण
 - C. थोर पुरुष
 - D. राजा
 - 37) दिलेल्या शब्दाचा समानार्थी नसलेला शब्द ओव
 - निखिल
 - A. सर्व /
 - B. निर्भीड
 - C. पूर्ण /
 - D. सगळा -
 - 5 Set D (Bacteriological Assistant/Laboratory Tech



- अघोरेखित शब्दांच्या विभक्तीचा अर्थ ओळखा.
 अ) तो घरातून बाहेर पडला.
 - A. कर्ता '
 - B. कर्म °
 - C. अपादान ४
 - D. संप्रदान प
- 39) 'सूर्य मावळत आहे' पूर्ण भविष्यकाळ करा.
 - A. सूर्य मावळेल.
 - B. सूर्य मावळत असेल.
 - C. सूर्य मावळलेला असेल
 - D. सूर्य मावळला.
- 40) 'अमुक झाले तर अमुक होईल' असे काल्पनिक विधान करावयाचे असेल तर भूतकाळी आणि भविष्यकाळी कोणत्या अर्थाच्या क्रियापदाची योजना करावी लागते?
 - A. आज्ञार्थी
 - B. संकेतार्थी
 - C. प्रश्नार्थक
 - D. यांपैकी नाही
- 41) तो पेरुचे फळ सावकाश खात आहे, या वाक्यातील क्रियाविशेषण कोणते?
 - A. पेरुचे फळ
 - В. फळ
 - C. सावकाश
 - D. खात आहे

- 42) अघोरेखित शब्दाचा प्रकार ओळखा. तू पण माझ्याब<u>रोबर प्रा</u>र्थना म्हण.
 - A. उभयान्वयी अव्यय
 - B. शब्दयोगी अव्यय
 - C. क्रियाविशेषण
 - D. केवलप्रयोगी अव्यय
- 43) कर्ता कर्म क्रियापद यांच्या परस्परसंबंधांना म्हणतात.
 - A. वाक्य
 - B. शब्दसमूह
 - C. कर्तरी प्रयोग
 - D. प्रयोग
- 44) सावळाच रंग तुझा पावसाळी नभापरी ! (अलंकार ओळखा)
 - A. ३लेष अलंकार
 - B. यमक अलंकार
 - C. अतिशयोक्ती अलंकार
 - D. उपमा अलंकार
- 45) लहानपण देगा देवा | मुंगी साखरेचा रवा | ऐरावत रत्न थोर | त्यासी अंकुशाचा मार | | वरील कडव्यातील अलंकार ओळखा.
 - A. यमक अलंकार
 - B. अनुप्रास अलंकार
 - C. रुपक अलंकार
 - D. दृष्टांत अलंकार

46)	"I'm sure I've met your father. A. Verb B. Preposition C. Pronoun D. Interjection	 53) Give the meaning of 'To call it a day'. A. To have a good day. B. To work all the day. C. To have a free day. D. To stop doing work of the day.
	Make the adjective of the word 'occasion.' A. occasioned B. accusational C. occasional D. occasionally Choose the correct conjunction:	54) Choose the correct meaning of the given phrase or idiom: Look into – A. to examine thoroughly B. to watch C. to observe
48)	She bought a car, she was too young to learn to drive. A. if B. because C. although D. if not	D. to follow 55) Which of the following word is correctly spelt? A. administration Administration B. conversation Conservation C. creatyre Courting D. devolop
49)	I will sing if he A. will ask me B. asks me C. asked me D. has asked me	56) Meaning of "Fly by night" A. Night journey B. A Bird busy in night C. Cat's eye D. Swindler
50)	He said, "Please help me." Choose the option with the correct indirect from of the above. A. He pleased me to help me. B. He requested me to help him. C. He ordered me about helping. D. He said I need help	57) I the apartment all day yesterday. A. Clear B. Washed out C. Cleaned Up D. None of these 58) Choose the word spelt correctly.
51)	Choose appropriate antonym for the word 'Gloomy' A. Idle	A. Substandial B. Substantial C. Substendial D. Substendial
52)	B. Wise C. Cheerful D. Sad Choose the correct answer from the following and	59) He competed me for the prize. A. Off B. With C. To
32)	fill in the blank: A doctor who studies and treats mental illness A. psychiatrist B. psychologist C. psychoanalyst D. psychiatry	D. Off 60) Hea very good grade in the examination. A. Earned B. Given C. Received D. None of these 7 Set - D (Bacteriological Assistant/Laboratory Technician)
	Y	

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100

- 61) A simple asexual spore which develops by budding is known as A. Chlamydospore B. Blastospore C. Arthospore D. Conidia 62) Who demonstrated that open tubes of broth
- remained free of bacteria when air was free of dust.
 - A. Abbc Spallanzani
 - B. John Tyndall
 - C. Francisco Redi
 - D. Pasteus
- 63) Salt and sugar preserve foods because they
 - A. Make them acid
 - B. Produce a hypotonic environment
 - C. Deplete nutrients
 - D. Produce a hypertonic environment
- 64) Direct microscopic count can be done with the aid of
 - A. Neuberg chamber
 - B. Anaerobic chamber
 - C. Mineral oil
 - D. Olive oil
- 65) The image obtained in a compound microscope is
 - A. Real
 - B. Virtual
 - C. Real inverted
 - D. Virtual inverted
- Compound microscope was discovered by
 - A. Antony von
 - B. Pasteur
 - C. Johnsen & Hans
 - D. None of these

- 67) Autoclaving is carried at
 - A. Dry heat
 - B. Atmospheric pressure
 - C. 1200 C
 - D. All of these
- 68) Algae are rich in
 - A. Carbohydrates
 - B. Proteins
 - C. Vitamins
 - D. All of these
- 69) Temperature used for hot air oven is
 - A. 1000 C for 1 hour
 - B. 1200 C for 1 hour
 - C. 1600 C for I hour
 - D. 600 C for 1 hour



- medium other than nutrients, If any 70) In the substance is used in excess, that medium is
 - A. Enriched medium
 - B. Special medium
 - C. Enriched medium
 - D. None of these
- 71) The principle involved in the streak plate method is
 - A. Separation
 - B. Streaking
 - C. Isolation
 - D. Dilution
- 72) Wilson and Blair medium is used for isolation of
 - A. Staphylococci
 - B. Salmonella typhosa
 - C. Vibrio cholerae
 - D. Shigella shigae
- 73) Shigella was first isolated by
 - A. Shiga
 - B. Schmitz
 - C. Sonnei
 - D. Robert Koch

Set - D (Bacteriological Assistant/Laboratory Technician)

74)	The orderly increase in the quantity of all of the		
13)	cellular components is known as	80)	A mutation that produces termination codon is
	A. Reproduction		A. Mis-sense mutation
	B. Growth		B. Neutral mutation
	C. Binary fission		C. Non-sense mutation
	D. None of these		D. Reverse mutation
75)	For sterilization of fermentation equipment the	81)	The resolution power of the compound microscope
	method followed is		is
	A. Radiation		A. 0.2 micron
	B. Chemicals		B. 0.2 millimeter
	C. Heating		C. 0.2 Angstron units
	D. All of these		D, 0.2 centimeter
76)	Source of light in fluorescence microscopy is from	82)	Electron microscope gives magnification upto
	A. Mercury lamp		A. 100 X
	B. Sunlight		B. 2000 X
	C. Both a and b		C. 50,000 X
	D. None of these		D. 2,00,000 X
77)	In electron microscope source of electrons is from	83)	The lethal dose required to kill 50% of the lab
	A. Mercury lamp		animals tested under standard called
	B. Tungsten metal		A. ID
	C. Both a and b		B, LD50
	D. None of these		C. ID50
			D. MLD
78)	If the vectors transmit the infection mechanically		
	they are called	84) Separation of a single bacterial colony is called
	A. Biological vectors		A. Isolation
	B. Mechanical vectors		B. Separation
	C. Biological reservoir		C. Pure culturing
	D. Both a and c		D. All of these
79)	Which is the following enzyme acts as a spreading	85	Which of the following induces dimerisation of
	factor?		thymine?
	A. Hyaluronidase		A. X-rays
	B. Coagulase		B. U.V. rays
	C. Catalase		C. a-rays
	D. DNase		D. None of these
		9	Set - D (Bacteriological Assistant/Laboratory Technician)

- 86) The medium used in membrane filter technique was
 - A. EMB agar
 - B. EMR-Vp medium
 - C. Lactose broth
 - D. Endo agar
- 87) Lysolisa
 - A. Sterilent
 - B. Disinfectant
 - C. Antiseptic
 - D. Antifungal agent
- 88) Which of the following is a neutral stain?
 - A. Pieric acid
 - B. Gmicmsa
 - C. Neutral red
 - D. Malachite green
- 89) Peptone water medium is an example for
 - A. Synthetic medium
 - B. Semisynthetic medium
 - C. Differential medium
 - D. None of these
- 90) The method in which the cells are frozen dehydrated is called
 - A. Pasteurization
 - B. Dessication
 - C. Disinfection
 - D. Lypophilization
- 91) Thermal death time is
 - A. Time required to kill all cells at a given temperature
 - B. Temperature that kills all cells in a given time
 - C. Time and temperature needed to kill all cells
 - D. All of the above

- 92) The identification of bacteria by serologic tests is based on the presence of specific antigens. Which of the following bacterial components is least likely to contain useful antigens?
 - A. Capsule
 - B. Cell wall
 - C. Flagella
 - D. Ribosomes
- 93) The organism which grows best above 45°C are called
 - A. psychrophilic
 - B. mesosphilic
 - C. thermophilic
 - D. any of these
- 94) Lag phase is also known as
 - A. period of initial adjustment
 - B. transitional period
 - C. generation time
 - D. none of these
- 95) Some organisms can use reduced inorganic compounds as electron donors and are termed as
 - A. lithotrophs -
 - B. phototrophs
 - C. chemotrophs-
 - D. photo-organotrophs
- 96) The predominant micro-organisms in frozen foods are
 - A. Bacteria
 - B. micro-coccus
 - C. yeast and moulds
 - D. none of these
- 97) The yoghurt is made from
 - A. Lactobacillus bulgaricus
 - B. Streptococcus thermophiles
 - C. S. cremoris
 - D. mixed culture of (a) and (b)

Set - D (Bacteriological Assistant/Laboratory Technician)

- 97) Mycoplasmas are different from other bacteria by?
 - A. Presence of chitin in cell wall
 - B. Presence of Techoic acid in cell wall
 - C. Presence of Lipoprotein in cell wall
 - D. Absence of cell wall itself.
- 98) Blotting describes the Of nucleic acids
 - A. Monitoring
 - B. Immobilization
 - C. Racing
 - D. Comparison

- 100) Which of the following is used for the analysis of compositional properties of DNA?
 - A. Southern blotting
 - B. Northern blotting
 - C. PCR
 - D. CHEF