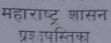


सार्वजनिक आरोग्य विभाग परिक्षा महाराष्ट्र शासन





Test Booklet No.: 32000416

प्रक्रपुस्तिका क्रमांक

Test Booklet Code



Roll Number: 4 4 5 5 2 2 5 4 1 6

Answer sheet No.:

Post Code:

32 \ Chemical Assistant

Total Marks: 200

Time: 2 Hours

Total Questions: 100

Name and Signature of the Candidate

Signature of the lavigilator

IMPORTANT INSTRUCTIONS **म्**इत्वाच्या सूचना

1. The test is of 2 hours duration and Questions	१. परिक्षेसाठी २ तासांची वेळ आहे. प्रश्न पुस्तिकेमध्ये
Booklet contains 100 questions. Each question	१०० प्रका आहेत. प्रत्येक प्रकासाठी दोन गुण आहे.
carries 02 mark. For each correct response, the	प्रत्येक अचूक उत्तरास दोन गुण मिळेल.
candidate will get 02 mark.	
2. Use Blue/Black Ball point Pen only for writing	२. या पानावर तप्त्रील लिहिप्यासाठी अथवा चिन्हांकित
particulars on this page or marking responses.	करण्यासाठी निळा/काळा बॉलणई पेन वापरा.
3. Rough work is to be done on the space provided for	३. कच्चे काम करावयाचे असल्यास त्यासाठी आच प्रश्न
this purpose in the Questions Bookler only.	पुस्तिकेमध्ये उपलब्ध केनेत्या स्वतंत्र जागेचा उपयोग
	करावा.
4. On completion of the test, the candidate must	४. परिक्षाः पूर्ण झाल्यानंतर उपेदवाराने परिक्षाकेंद्र
handover the Answer Sheet to the Invigilator before	सोडण्यापूर्वी उत्तर पत्रिका समावेशकांकडे जमा करणे
leaving the Examination Hall. The candidates are	बंधनकारक आहे. मात्र प्रश्नपुस्तिका उमेदवाराना वरोवर
allowed to take away this Questions Booklet with	घेऊन जाण्याची परवानगी आहे.
them after examination is over.	
5 The candidates should ensure that Answer Sheet is	५. उमेदवाराने उत्तरपत्रिकेच्या घड्या घालू नयेत.
not for aid. Do not make any stray marks on the	उत्तरपत्रिकेवर उताराचे गडद केलेले फक्त एकच वर्तुळ
Answer neet Do not write your Roll No. Anywhere	सोडून इतर कोणत्याही .प्रकारच्या खाण-खुणा करु नयेत.
and except in the pecinied space in the Questions	प्रश्नपुस्तिका व उत्तरपरिकेवरील निर्देशित केलेल्या
Booklet a ic Answer Sheet.	ठिकाणीच आपला रोल नंबर लिहावा.
6. Each candidate must show his/her Admit Card/Hall	६. परीक्षा केंद्रावरील समावेशारंनी मागणी केल्यानंतर
Ticket to Invigilator whenever demanded.	उपेदवारानी प्रवेशपत्र दाखवावे. (Admit Card/Hall Ticket)
7. No candidate should leave his / her seat wi hout	७. परिक्षा केंद्रा वरिल समावेक्षक अववा पर्यवेक्षक यांच्या
special permission of the Invigilator/Supervisor.	विशेष परवानगी शिवाय कोणत्याही उमेदवारास आपली
	जागा अथवा परिका कक्ष सोडता येणार नाही.
8. Use of Elect onic/ Annual Calculator is prohibite.	८. इलेक्ट्रॉनिक/गॅथुअल कॅल्क्युलेटर यांचा वापर
	करण्यास सकत म ।ई आहे.
2. The candidates are governed by all Rules and	९. उमेदवारांनी वरिक्षे संबंधी लागू असणा-या सर्व
Pegulations of the examination with regard to their	दियणंचे पालन करणे बंधनकारक राहील.
conduct in the Examination Half.	आचारसंहितेचा अन केल्यास नियमानुसार कारवाई
	करण्यात येईल.
fill cases of unfair means will be dealt with the rules &	
regulations of this examination.	
10. No part of Booklet and Answer Sheet shall be	
detached under sa, c. cumstances.	
	नयेत
	१०. परिक्षा पुर्ण होईपर्यंत दौरात्याही परिस्थितीत प्रकापत्रिका तसेच एत्तरर्णात्रका यांची पाने वेगळी करु

- 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
 - B. $\frac{5}{22}$
 - C. 7/22
 - $\sqrt{\frac{7}{33}}$
 - 2) 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
 - 3) 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
 - 4) Covid-19 is caused by
 - A. Bacteria
 - B. Parasite
 - C. Virus
 - D. Fungus
 - 5) 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. 7 m
 - B. 10 m
 - C. 5 m
 - D. 8 m

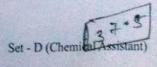


- 6) If Sunday falls on 30th April, what day would be on 31st May?
 - A. Saturday
 - B. Sunday
 - C. Monday
 - D. Wednesday

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

- A. 12
- B. 8
- C. 14
- D. 16
- 8) 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
- 9) 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
- 10) 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%

78×\$2525



5625 245

11) The correct sequence of communication is 17) 'दुभत्या गाईच्या लाथा गोंड' या म्हणीचा अर्थ A. Message Sender Receiver खालीलपैकी कोणता? B. Message Receiver Sender A. दुभत्या गाईची लाथ लागत नाही. C. Sender Message Receiver B. फायदयासाठी अपमान सहन करणे. D. Receiver Sender Message C. अडथळे आले तरी प्रयत्न करावा. D. दुभत्या गाईच्या लाथा खाणे. 12) AB, DE, GH, ?, MN A. IJ 18) 'अर्थ नसणे' या अर्थाचा योग्य वाकप्रचार कोणता? B. HI C. JK A. गाशा गुंडाळणे D. None B. फुगडी घालणे C. वा-यावर सोडणे 13) Pick the odd one D. राम नसणे A. Bengali B. Marathi 19) 'कृपण' या शब्दाच्या विरुध्दार्थी शब्द ओळखा C. English A. उदार D. Kannad B. कृतघ्न C. गरीब 14) In a row of trees, one tree is seventh from either end D. अपूर्व of the row. How many trees are there in the row? A. 8 B. 13 20) गटात न बसणारा शब्द ओळखा? C. 14 A. स्त D. 11 B. भाता C. बंध् 15) In a class of 45 students, a boy is ranked 20th. D. भाऊ When two boys joined, his rank was dropped by one. What is his new rank from the end? 21) रामबाण A. 25th A. अचुक गुणकारी B. 26th - B. रामाचा बाण C. 27th C. थोर पुरुष D. 28th D. राजा 16) अशुध्द शब्द ओळखा 22) दिलेल्या शब्दाचा समानार्थी नसलेला शब्द ओळखा. A. तथापि निखिल B. परंत् A. सर्व C. आणि B. निभीड D. यापैकी नाही C. पूर्ण D. सगळा

- अधोरेखित शब्दांच्या विभक्तीचा अर्थ ओळखा.
 अ) तो घरातून बाहेर पडला.
 - A. कर्ता
 - B. कर्म
 - C. अपादान
 - D. संप्रदान
- 24) 'सूर्य मावळत आहे' पूर्ण भविष्यकाळ करा.
 - A. सूर्य मावळेल.
 - B. सूर्य मावळत असेल.
 - C. सूर्य मावळलेला असेल
 - D. सूर्य मावळला.
- 25) '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
- 26) तो पेरुचे फळ सावकाश खात आहे, या वाक्यातील क्रियाविशेषण कोणते?
 - A. पेरुचे फळ
 - В. फळ
 - C. सावकाश
 - D. खात आहे

- 27) अधोरेखित शब्दाचा प्रकार ओळखा. तू पण माझ्याबरोबर प्रार्थना म्हण.
 - A. उभयान्वयी अव्यय
 - B. शब्दयोगी अव्यय
 - C. क्रियाविशेषण
 - D. केवलप्रयोगी अव्यय
- 28) कर्ता कर्म क्रियापद यांच्या परस्परसंबंधांनाम्हणतात.
 - A. वाक्य
 - B. शब्दसमूह
 - C. कर्तरी प्रयोग
 - D. प्रयोग
- 29) सावळाच रंग तुझा पावसाळी नभापरी ! (अलंकार ओळखा)
 - A. इलेष अलंकार
 - B. यमक अलंकार
 - C. अतिशयोक्ती अलंकार
 - D. उपमा अलंकार
- 30) 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

31) What is the full form of AD, used with dates?	39) Thar Desert is situated in -
A. Anno Domini B. Assistant Director	A. Rajasthan
C. Aknowledgement Due	B. West Bengal
D. After Date	C. Tamilnadu
D. Alter Date	D. Uttarakhand
32) Which of the following planets of our solar system	
has least mass?	40) Which of the following is the highest mountain
A. Neptune	peak in Maharashtra?
B. Jupitar	A. Taramati
C. Mars	B. Anjaneri
D. Mercury	
	C. Salher
33) Ozone gas is present in which layer of atmosphere?	D. Kalsubai
A. Stratosphere	
B. Troposphere	A1) National Rural Health Mission (NRHM) was
C. Ionosphere	launched in the year:
D. Mesosphere	A. 2003
24) Who built the Whoise Later 1 . 0	B. 2004
34) Who built the Khajuraho temples?	
A. Holkars B. Scindias	C. 2005
C. Bundela	D. 2006
D. Chandela	
D. Chandela	42) Who was called the 'Iron Man of India'?
35) At which the following places is the famous	A. Sardar Ballabhbhai Patel
Kailasha Temple located?	B. Surendranath Bannerjee
A. Ajanta	C. Bipin Chandra Pal
B. Badami	D. Lala Lajpat Rai
C. Chittor	2. Data Dajpackar
D. Ellora	42) Which are interface of CM 1
	43) Which sea is to the west of Maharashtra?
36) 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	
37) How many spokes are there in the Dharma Chakra	44) 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	D. 27th February
C. 24	D. Drait Coldiny
D. 32	45) The river Kovma in in the river K
38) The headquarter of RBI is situated at:	45) The river Koyna joins the river Krishna at —
A. Delhi	A. Satara
B. Kolkata	B. Karad
C. Chennai	C. Kolhapur
D. Mumbai	D. Mahabaleshwar +
The second secon	

A To have a good 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. 47) Choose the correct meaning of the given phrase or idiom: Look into— A. to examine thoroughly B. to watch C. to observe D. to follow 48) Which of the following word is correctly spelt? A. administration B. convorsation C. creatyre D. devolop 49) Meaning of "Fly by night" A. Nightjourney B. A Bird busy in night C. Cat's eye D. Swindler 50) I	46) Give the manning of To call it a day!	*
B. To work all the day. C. To have a free day. P. To stop doing work of the day. 47) Choose the correct meaning of the given phrase or idiom: Look into— A. to examine thoroughly B. to watch C. to observe D. to follow 48) Which of the following word is correctly spelt? A. administration B. convorsation C. creatyre D. devolop 49) Meaning of "Fly by night" A. Night journey B. A Bird busy in night C. Car's eye D. Swindler 50) I the apartment all day yesterday. A. Clear B. Washed out C. Cleaned Up D. None of these 51) Choose the word spelt correctly. A. Substantial C. Substantial B. Substantial C. Substential D. Substentia		
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Set - D (Chemical Assistant)	D. None of these	
		7 Set - D (Chemical Assistant)

96) Which of the following alkaline earth metals is the (261) Which of the following does not react with water? A. Barium 🤌 rarest in the earth crust? B. Calcium A. Calcium C. Beryllium B. Strontium D. Strontium C. Radium D. Beryllium 62) Identify the amino acids containing nonpolar, 67) What is water gas? aliphatic R groups. A. mixture of CO and H, A. Phenylalanine, tyrosine, and tryptophan B. mixture of CO and H₂O B. Glycine, alanine, leucine C. mixture of CO, and H, C. Lysine, arginine, histidine D. Carbon mono-oxide D. Serine, threonine, cysteine Which of the following catalyst is used generally (63) Which among the following is both glucogenic and during the hydrogenation of Alkenes? ketogenic? A. Platinum A. Isoleucine B. Palladium B. Leucine C. Nickel C. Lysine D. All of the above D. Histidine (69) Which of the following is correct about Hard water? + 64) Peptide bond is a A. it is free from soluble salts of calcium and A. Covalent bond magnesium B. Ionic bond B. it does not give lather with soap C. Metallic bond C. Both a and b D. Hydrogen bond D. None of the above 65) Which of the following statements is true about 70) Which of the following is correct about Ammonia? size-exclusion chromatography? A. The ammonia molecule is trigonal pyramidal in A. During the separation of a mixture of proteins, shape protein with smallest molecular weight is B. Ammonia gas is light blue in colour > Ammonia gas is light blue eluted first C. its aqueous solution is highly basic B. During the separation of a mixture of proteins, D. Ammonia gas is odorless protein with largest molecular weight is eluted first 71) Which of the following is NOT correct about C. During the separation of a mixture of proteins, Phosphine? protein with largest molecular weight is eluted A. The chemical formula is PH, last B. The electronic structure is like Ammonia D. During the separation of a mixture of proteins, C. It is odorless

D. it is used as a dopant in semiconductor

industries

protein with largest molecular weight flow

around the beads

- 72) The neutralization reaction between an acid and a base is a type of:
 - A. Double displacement reaction
 - B. Displacement reaction
 - C. Addition reaction
 - D. Decomposition reaction
- 73) Oleum is
 - A. a misture of conc. H,SO4 and oil
 - B. sulphuric acid which gives fumes of sulphur dioxide
 - C. sulphuric acid saturated with sulphur trioxide
 - D. a mixture of sulphuric and nitric acid.
- 74) When sulphur dioxide is passed through a solution of hydrogen sulphate in water
 - A. Sulphuric acid is formed in solution
 - B. Sulphurous acid is formed
 - C. Sulphur is precipitated ~
 - D. No change in observed
- 75) Which one of the following statement about a chemical equation is true
 - A. Mass is conserved
 - B. Mass as well as atoms are conserved
 - C. Atoms are conserved
 - D. Ions are conserved
- A balanced chemical equation is in accordance with
 - A. Law of gaseous volumes
 - B. Law of Avogadro
 - C. Law of constant proportions
 - D. Law of conservation of mass
 - 77) Chemical reaction involve the participation of
 - A. Electron
 - B. Protons
 - C. Neutrons
 - D. Nuclei
 - Set D (Chemical Assistant)

- 78) Chemical reaction does not involve:
 - A. Formation of new substances having entirely different properties than that of the reactants.
 - B. Breaking of old chemical bonds and formation of new chemical bonds
 - C. Rearrangement of the atoms of reactants to form new products
 - D. Changing of the atoms of one element into those of another element to form new products
- 79) One of the following processes does not involve a chemical reaction. That is:
 - A. Melting of candle wax when heated
 - B. Burning of candle wax when heated
 - C. Digestion of food in our stomach
 - D. Ripening of banana
- (80) Rusting of iron involves a chemical reaction which is a combination of:
 - A. Reduction as well as combination reactions
 - B. Oxidation as well as combination reactions
 - C. Reduction as well as displacement reactions
 - D. Oxidation as well as displacement reactions
 - 81) When ferrous sulphate is heated strongly it undergoes decomposition to form ferric oxide as a main product accompanied by a change in colour from:
 - A. Blue to green.
 - B. Green to blue.
 - C. Green to brown.
 - D. Green to yellow.
- Which of the following gases is used in the storage of fat and oil containing foods for a long time?
 - A. Carbondioxide gas
 - B. Nitrogen gas
 - C. Gxygen gas
 - D. Neon gas

H302+45-42-8

- (83) Which among the following is popularly called Hypo?
 - A. Silver Bromide
 - B. Silver nitrate
 - C. Sodium thiosulphate
 - D. Sodium phosphate
- 84) Which of the following is not a non-metallic mineral?
 - A. Mica

0

- B. Bauxite
- C. Granite
- D. Silica
- 85) Which among the following is known as White Vitriol?
 - A. Zinc Sulphate ~
 - B. Zinc Chloride
 - C. Zinc Phosphate
 - ⋆ D. Zinc oxide
- 86) Which among the following is a common salt in Detergents?
 - A. Sulphate
 - B. Nitrate
 - C. Sulphonate
 - D. Carbonate
- 87) Which among following is also known as white gold?
 - A. Nickel
 - B. Rhodium
 - C. Platinum
 - D. Palladium
- 88) Consider the following statements about Zeolites:
 - Zeolites are a large group of natural and synthetic hydrated aluminium silicates
 - Zeolites are mainly found in low-temperature metamorphic rocks

Which of the above statements is/are correct?

- A. 1 Only
- B. 2 Only
- C. Both 1 & 2
- D. Neither 1 nor 2

- 89) The symbolic representation of the molecule of a compound is called
 - A. Structural formula
 - B. Molecular formula
 - C. Empirical formula ⊀
 - D. Graphic formula >
- 90) Reaction between neutral solution of barium chloride and sodium carbonate goes to completion because
 - A. the reaction is irreversible
 - B. sodium chloride is only sparingly soluble in water
 - C. barium carbonate is almost insoluble in water
 - D. the solubility of BaCI₂ decreases in the presence of sodium carbonate
- 91) A Photochemical reaction is
 - A. Catalyzed by light
 - ∠B. Initiated by light
 - C. Accompanied with emission of light
 - D. Used to convert heat energy into light
- . 92) Before burning in air, the magnesium ribbon is cleaned by rubbing with a sand paper to:
 - A. Make the ribbon surface shinier
 - B. Remove the layer of magnesium oxide from the ribbon surface
 - C. Remove the layer of magnesium carbonate from the ribbon surface
 - D. Remove the moisture from the ribbon surface
 - 93) The energy required to remove an electron from the outermost shell of an atom in its isolated gaseous state is called?
 - A. Electron Affinity
 - B. Reducing Potential
 - C. Ionization Potential
 - D. Shell Potential

 94) Which of the following is an essential fatty acid? A. Linolenic B. Palmitic C. Oleic D. Stearic 95) Which of the following is a polar derivative of cholesterol? 	98) In the binding of oxygen to myoglobin, the relationship between the concentration of oxygen and the fraction of binding sites occupied can best be described as
A. Bile salt	D. Taltoonw
B. OestrogenC. Vitamin DD. Progesterone	99) Which of the following are not the components of RNA? A. Thymine
96) Which of the following fatty acid has the least melting point? A. Palmitic acid + 62.3 c B. Stearic acid + 69.3 c	
C. Arachidonic acid (-49°C) D. Timnodonic acid (-54°C)	100) What is the composition of nucleoside? A. a sugar + a phosphate
97) Which of the following is a storage form of lipid? A. Glycolipid B. Phospholipid C. Sufolipid D. Triacyl glycerol	B. a base + a sugar C. a base + a phosphate D. a base + a sugar + phosphate D. a base + a sugar + phosphate
	×———
Rougr	n Work