

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

Test Booklet No. :

00333

TEST BOOKLET
BIOLOGY AND GENERAL STUDIES

Series



Time Allowed : 2 Hours

Full Marks : 200

Read the following instructions carefully before you begin to answer the questions :

1. The name of the Subject, Roll Number as mentioned in the Admission Certificate, Test Booklet No. and Series are to be written legibly and correctly in the space provided on the Answer-Sheet with Black/Blue ballpoint pen.
2. Answer-Sheet without marking Series as mentioned above in the space provided for in the Answer-Sheet shall not be evaluated.
3. All questions carry equal marks.

The Answer-Sheet should be submitted to the Invigilator.

Directions for giving the answers : Directions for answering questions have already been issued to the respective candidates in the 'Instructions for marking in the OMR Answer-Sheet' along with the Admit Card and Specimen Copy of the OMR Answer-Sheet.

Example :

Suppose the following question is asked :

The capital of Bangladesh is

- (A) Chennai
(B) London
(C) Dhaka
(D) Dhubri

You will have four alternatives in the Answer-Sheet for your response corresponding to each question of the Test Booklet as below :



In the above illustration, if your chosen response is alternative (C), i.e., Dhaka, then the same should be marked on the Answer-Sheet by blackening the relevant circle with a Black/Blue ballpoint pen only as below :



The example shown above is the only correct method of answering.

4. Use of eraser, blade, chemical whitener fluid to rectify any response is prohibited.
5. Please ensure that the Test Booklet has the required number of pages (16) and 100 questions immediately after opening the Booklet. In case of any discrepancy, please report the same to the Invigilator.
6. No candidate shall be admitted to the Examination Hall/Room 20 minutes after the commencement of the examination.
7. No candidate shall leave the Examination Hall/Room without prior permission of the Supervisor/Invigilator. No candidate shall be permitted to hand over his/her Answer-Sheet and leave the Examination Hall/Room before expiry of the full time allotted for each paper.
8. No Mobile Phone, Electronic Communication Device, etc., are allowed to be carried inside the Examination Hall/Room by the candidates. Any Mobile Phone, Electronic Communication Device, etc., found in possession of the candidate inside the Examination Hall/Room, even if on off mode, shall be liable for confiscation.
9. No candidate shall have in his/her possession inside the Examination Hall/Room any book, notebook or loose paper, except his/her Admission Certificate and other connected papers permitted by the Commission.
10. Complete silence must be observed in the Examination Hall/Room. No candidate shall copy from the paper of any other candidate, or permit his/her own paper to be copied, or give, or attempt to give, or obtain, or attempt to obtain irregular assistance of any kind.
11. This Test Booklet can be carried with you after answering the questions in the prescribed Answer-Sheet.
12. Noncompliance with any of the above instructions will render a candidate liable to penalty as may be deemed fit.
13. No rough work is to be done on the OMR Answer-Sheet. You can do the rough work on the space provided in the Test Booklet.

N.B. : There will be negative marking @ 0.25 per 1 (one) mark against each wrong answer.

1. By which of the following processes, the genome of bacteria is prevented by its endonucleases?
 - (A) Methylation at restriction sites
 - (B) Immune mechanism
 - (C) Nuclease resistant genome
 - (D) Endonucleases are not very effective on bacterial genome

2. The acrosome of the sperm is formed from the
 - (A) mitochondria
 - (B) centrosome
 - (C) lysosome
 - (D) Golgi bodies

3. Which of the following translational modifications of proteins **does not** occur in the lumen of ER?
 - (A) Glycosylation
 - (B) Ubiquitination
 - (C) Conformation folding and formation of quaternary structure
 - (D) Formation of disulphide bonds

4. In dark-field microscopy, light is scattered by the specimen, resulting in
 - (A) a bright background with dark objects
 - (B) a dark background with bright objects
 - (C) colored images of the specimen
 - (D) increased magnification compared to bright field

5. Which checkpoint in the cell cycle ensures DNA replication is complete before mitosis begins?
 - (A) G₁ checkpoint
 - (B) G₂ checkpoint
 - (C) M checkpoint
 - (D) There are no checkpoints

6. Hemoglobin, the oxygen-carrying protein in red blood cells, is an example of a
 - (A) fibrous protein
 - (B) globular protein
 - (C) simple protein
 - (D) conjugated protein

7. The human leukocyte antigen (HLA) system is a group of genes that code for cell surface proteins that play a vital role in
 - (A) nutrient transport
 - (B) immune response and self-recognition
 - (C) muscle contraction
 - (D) blood clotting

8. In a sexual assault investigation, the presence of prostate-specific antigen (PSA) in a semen stain can
 - (A) identify the specific DNA profile of the perpetrator
 - (B) indicate the perpetrator's age
 - (C) provide a presumptive test for semen
 - (D) determine the time since the assault

9. Signal transduction pathways allow cells to respond to external stimuli by
- (A) directly activating genes
 - (B) relaying signals through a series of molecules within the cell
 - (C) increasing the rate of protein degradation
 - (D) blocking the cell cycle at a checkpoint
10. In a zwitterion, the overall charge of the molecule is
- (A) positive
 - (B) negative
 - (C) neutral
 - (D) It is not relevant to charge on molecule
11. Who is considered as the 'father of forensic medicine'?
- (A) Albert Einstein
 - (B) Mathieu Orfila
 - (C) James Marsh
 - (D) Alphonse Bertillon
12. The development of the fingerprint identification system is attributed to
- (A) Alphonse Bertillon
 - (B) Hans Gross
 - (C) Francis Galton
 - (D) Sir William Herschel
13. The growing phase of hair is called as
- (A) anagen
 - (B) catagen
 - (C) telogen
 - (D) None of the above
14. In forensic casework, prostate-specific antigen (PSA) testing is primarily used in
- (A) arson investigations
 - (B) drug trafficking cases
 - (C) sexual assault investigations
 - (D) counterfeit currency analysis
15. Identifying endangered wood is important because
- (A) it may have inferior quality for construction
 - (B) it helps to determine the age of a tree
 - (C) it supports sustainable forestry practices
 - (D) it affects the taste of furniture
16. Gram-positive bacteria typically appear in a Gram stain as
- (A) pink or red
 - (B) violet or purple
 - (C) yellow or orange
 - (D) colorless
17. Which of the following insect life stages is most useful for estimating the post-mortem interval (PMI)?
- (A) Eggs
 - (B) Larvae
 - (C) Pupae
 - (D) Adults

18. Jaffe color test using picric acid to convert creatinine to colored creatinine picrate is used for the detection of
- (A) vaginal secretion
 - (B) menstrual blood
 - (C) urine
 - (D) vomitus
19. A body buried deep underground will likely experience
- (A) a rapid succession of insect colonization
 - (B) a slower and delayed insect succession
 - (C) a unique set of insect species not found above ground
 - (D) It will not affect insect succession
20. The presence of trichomes on plant material can be a clue for the presence of
- (A) opium
 - (B) cannabis
 - (C) coca plant
 - (D) *Psilocybe* mushrooms
21. Common examples of cell lines used in research include
- (A) yeast cultures
 - (B) HeLa cells
 - (C) pollen grains
 - (D) muscle fibers
22. Ti plasmid stands for
- (A) tissue-infecting plasmid
 - (B) tumor-inducing plasmid
 - (C) transmissible island plasmid
 - (D) transferable inheritance plasmid
23. Which is the correct order from strongest to weakest bond?
- (A) Ionic bond > Covalent bond > Hydrogen bond > van der Waals interaction
 - (B) Ionic bond > Hydrogen bond > Covalent bond > van der Waals interaction
 - (C) Covalent bond > Ionic bond > Hydrogen bond > van der Waals interaction
 - (D) Hydrogen bond > Ionic bond > Covalent bond > van der Waals interaction
24. Which type of cell has the potential to develop into all cell types of an organism, including extraembryonic structures like the placenta?
- (A) Pluripotent cell
 - (B) Multipotent cell
 - (C) Differentiated cell
 - (D) Totipotent cell
25. Dolly, the sheep was significant because she was the first mammal cloned from
- (A) embryonic stem cells
 - (B) adult somatic cells
 - (C) egg cells
 - (D) sperm cells
26. The primary purpose of Northern blotting is to
- (A) sequence a specific gene
 - (B) identify mutations in DNA
 - (C) quantify and identify specific RNA molecules
 - (D) amplify DNA for further analysis

- 27.** Stem cells are characterized by their abilities to
- (A) perform specialized functions
 - (B) self-renew and differentiate into other cell types
 - (C) secrete large amounts of hormones
 - (D) have a short life span
- 28.** The T-DNA region of a bacterial plasmid codes for the production of
- (A) proteins involved in bacterial replication
 - (B) genes beneficial to the plant host
 - (C) viral replication machinery
 - (D) toxins
- 29.** Compared to other protein separation techniques like SDS-PAGE, IEF offers the advantage of
- (A) higher resolution for proteins with similar molecular weights
 - (B) faster separation times
 - (C) direct visualization of protein bands
 - (D) no benefit above SDS-PAGE
- 30.** CRISPR-Cas9 is a powerful tool for gene editing that allows scientists to
- (A) introduce new genes into cells
 - (B) modify existing genes in a targeted way
 - (C) deliver therapeutic genes through viral vectors
 - (D) amplify specific DNA sequences
- 31.** A cesium chloride will separate DNA based on
- (A) absorption
 - (B) resorption
 - (C) density
 - (D) adhesion
- 32.** Short tandem repeat (STR) analysis is a commonly used technique for
- (A) sequencing entire genomes
 - (B) identifying individuals based on specific DNA markers
 - (C) visualizing chromosomes under a microscope
 - (D) detecting mutations in genes
- 33.** Who is widely recognized as the father of DNA profiling?
- (A) H. G. Khorana
 - (B) Alec Jeffreys
 - (C) Kary Mullis
 - (D) E. M. Southern
- 34.** The nitrogenous bases in DNA are divided into two categories : purines and pyrimidines. Examples of purines include
- (A) adenine (A) and thymine (T)
 - (B) adenine (A) and guanine (G)
 - (C) cytosine (C) and uracil (U)
 - (D) guanine (G) and thymine (T)
- 35.** The length of amelogenin locus in Y-chromosomes is
- (A) 114 bp
 - (B) 106 bp
 - (C) 110 bp
 - (D) 112 bp

36. The Wildlife (Protection) Act was enacted in India in which year?
- (A) 1952
(B) 1962
(C) 1972
(D) 1980
37. Which of the following is a legally protected area in India with the strictest regulations on human activity?
- (A) Wildlife Sanctuary
(B) National Park
(C) Biosphere Reserve
(D) Conservation Reserve
38. Who discovered the PCR technique?
- (A) Kary Mullis
(B) Alexander Fleming
(C) Alec Jeffreys
(D) H. G. Khorana
39. The Wildlife Institute of India (WII) is a premier national institute for wildlife research, education and training located in
- (A) Lucknow, Uttar Pradesh
(B) Shillong, Meghalaya
(C) Dehradun, Uttarakhand
(D) Ranchi, Jharkhand
40. Which of the following is **not** a common method for DNA extraction?
- (A) Gel electrophoresis
(B) Organic extraction (phenol-chloroform)
(C) Chelex 100 resin method
(D) Salt-detergent extraction
41. Which of the following methods relies on the specific chemical cleavage of DNA at different nucleotides?
- (A) Sanger sequencing
(B) Maxam-Gilbert sequencing
(C) Ion Torrent sequencing
(D) Single-molecule real-time (SMRT) sequencing
42. The first step in DNA isolation typically involves cell lysis. What is the purpose of this step?
- (A) To remove inhibitors of DNA amplification
(B) To purify the DNA
(C) To break open the cells and release the DNA
(D) To concentrate the DNA
43. The study of hair is known as
- (A) histology
(B) phytology
(C) lithology
(D) trichology

44. What was the primary purpose of the DNA Bill in India?
- (A) To regulate genetic modification of crops
 - (B) To establish a DNA data bank for identification purposes
 - (C) To provide funding for DNA research projects
 - (D) To ban the use of DNA testing in paternity suits
45. Which of the following is the primary focus of quality control (QC) in a forensic laboratory?
- (A) Designing protocols for new forensic techniques
 - (B) Ensuring the accuracy and reliability of analytical results
 - (C) Overseeing the training and competency of laboratory personnel
 - (D) Maintaining a clean and organized laboratory environment
46. The technology used to predict physical characteristics from DNA is called
- (A) DNA fingerprinting
 - (B) forensic DNA phenotyping
 - (C) DNA cloning
 - (D) genetic engineering
47. Name the type of blood, when it does not show agglutination reaction with anti-A or anti-B.
- (A) AB -ve
 - (B) Negative type
 - (C) Bombay type
 - (D) Rh negative type
48. Which Ministry is responsible for the National IPR Policy?
- (A) The Ministry of Education
 - (B) The Ministry of Commerce
 - (C) The Ministry of Culture
 - (D) The Ministry of Science and Technology
49. Which of the following statements is **false** about mtDNA testing in genetic genealogy?
- (A) mtDNA is passed down from mother to child (relatively unchanged).
 - (B) mtDNA can be used to identify maternal ancestors.
 - (C) mtDNA remains same for siblings with different father and same mother.
 - (D) mtDNA testing can be used to identify the father.
50. Which of the following international standards does NABL use for accrediting testing and calibration laboratories?
- (A) ISO 9001
 - (B) ISO/IEC 17025
 - (C) ISO 14001
 - (D) All of the above

51. The part of the skeleton that is not as hard as bone and which can be bent is called
- (A) vertebra
(B) carpel
(C) cartilage
(D) All of the above
52. For long time it was believed that life originated from dead and decaying matters, the theory is known as
- (A) Louis Pasteur theory
(B) Hindenburg theory
(C) Spontaneous Generation theory
(D) Big Bang theory
53. Sometimes it happens that a seed germinates within the mother plant before its detachment. The phenomenon is called
- (A) vivipary
(B) geopary
(C) neopary
(D) hemopary
54. Boyle's law is applicable for an
- (A) adiabatic process
(B) isothermal process
(C) isobaric process
(D) isochoric process
55. Which of the following can be treated as a biocontrol agent for plant diseases?
- (A) *Trichoderma*
(B) *Lactobacillus*
(C) *Azospirillum*
(D) *Azotobacter*
56. Among the options, which letter **does not** found in periodic table?
- (A) W
(B) J
(C) N
(D) X
57. Which of the following pairs of organelles **does not** contain DNA?
- (A) Nuclear envelope and mitochondria
(B) Mitochondria and lysosome
(C) Chloroplast and vacuole
(D) Lysosome and vacuole
58. A sphere, a cube and a thin circular plate, all of same material and same mass are initially heated to same high temperature. Then which of the following statements is true?
- (A) Plate will cool fastest and cube the slowest.
(B) Sphere will cool fastest and cube the slowest.
(C) Plate will cool fastest and sphere the slowest.
(D) Cube will cool fastest and plate the slowest.

59. AgCl is crystallized from molten AgCl, containing a little CdCl₂. The solid obtained will have
- cationic vacancies equal to number of Cd²⁺ ions incorporated
 - cationic vacancies equal to double the number of Cd²⁺ ions
 - anionic vacancies
 - neither cationic nor anionic vacancies
60. A simple harmonic wave is represented as
- $$y = 5 \sin \pi / 2 (100t - 2x)$$
- x and y are in metre, t is in second. The ratio of wave velocity to maximum particle velocity will be
- 2π
 - 3π
 - 4π
 - 5π
61. Which of the following statements is **not** true for the amorphous and crystalline solids?
- Amorphous solids are isotropic and crystalline solids are anisotropic.
 - Amorphous solids are short-range order and crystalline solids are long-range order.
 - Amorphous solids melt at characteristic temperature while crystalline solids melt over a range of temperature.
 - Amorphous solids have irregular shape and crystalline solids have a geometrical shape.
62. Which of the following statements is **not** true about the hexagonal close packing?
- The coordination number is 12.
 - It has 74% packing efficiency.
 - Tetrahedral voids of the second layer are covered by the spheres of the third layer.
 - In this arrangement, spheres of the fourth layer are exactly aligned with those of the first layer.
63. An electron is projected into a magnetic field with components of velocity parallel and normal to the field. The path followed by electron will be
- straight
 - parabolic
 - helical
 - elliptical
64. If you want to convert cooking oil into vegetable ghee, the process that you would use is called
- freezing
 - oxidation
 - crystallization
 - hydrogenation

65. Solid A is very hard electrical insulator in solid as well as in molten state and melts at an extremely high temperature. What type of solid is it?
- (A) Ionic solid
 - (B) Molecular solid
 - (C) Covalent solid
 - (D) Metallic solid
66. When a non-volatile solid is added to pure water it will
- (A) boil above 100 °C and freeze above 0 °C
 - (B) boil below 100 °C and freeze above 0 °C
 - (C) boil above 100 °C and freeze below 0 °C
 - (D) boil below 100 °C and freeze below 0 °C
67. Ohm's law is not obeyed by
- (A) electrolyte
 - (B) discharge tube
 - (C) vacuum tube
 - (D) All of the above
68. What kind of charge is produced when a glass rod is rubbed with silk?
- (A) + ve
 - (B) - ve
 - (C) Both + ve and - ve
 - (D) None of the above
69. The plants that are growing in a rocky habitat are known as
- (A) xerophytes
 - (B) lithophytes
 - (C) hydrophytes
 - (D) epiphytes
70. Interstitial compounds are formed when small atoms are dropped under the curved lattice of metals. Whether the following is **not** the characteristic property of interstitial compounds?
- (A) They have high melting points into pure metals
 - (B) They are very hard
 - (C) They retain metallic conductivity
 - (D) They are chemically very reactive

71. 1836 is considered crucial in the history of Assamese language and literature because
- Assamese was reinstated as official language of Assam
 - Bengali was imposed as Assam's State language
 - first Assamese novel was published
 - first Assamese magazine was published
72. Assam shares its international borders with how many countries?
- 1
 - 2
 - 3
 - 4
73. Which of the following State symbols of Assam is **not** correctly matched?
- State Flower–Kopou Phul
 - State Animal– One-horned rhino
 - State Tree–Hollong
 - State Bird–Hornbill
74. Which fauna is commonly known as 'Hihu' in the Brahmaputra basin, which has been declared as the State aquatic animal?
- Golden mahseer
 - Dugong
 - Gangetic river dolphin
 - Ganges sharks
75. Several States in the Northeastern part of India were carved out by separating them from Assam. Which one of the following pairs is **not** among them?
- Manipur and Meghalaya
 - Mizoram and Tripura
 - Arunachal Pradesh and Nagaland
 - Manipur and Tripura
76. Chao Suhungmung was the first Ahom King to adopt a Hindu title, indicating a move towards an inclusive polity. Which Hindu name did he take?
- Swarganarayana
 - Durlavnarayana
 - Udayaditya Singha
 - Jayadhwaj Singha
77. She was the founder of The All Assam Pradeshik Mahila Samiti. The novel, *Abhijatri* is also based on her life and achievements. She is
- Nalini Bala Devi
 - Aideu Handique
 - Chandraprabha Saikiani
 - Rajbala Handique

78. The best passing out cadet of the National Defence Academy, Khadakwasla (Pune) is conferred the
- (A) Chhatrapati Shivaji Gold Medal
 - (B) Lachit Borphukan Gold Medal
 - (C) Rani Laxmi Bai Gold Medal
 - (D) President's Gold Medal
79. _____ is a traditional rice beer prepared by one of the tribal communities of Assam which is the only rice beer having GI tag from Northeastern States.
- (A) Feni
 - (B) Judima
 - (C) Apong
 - (D) Rohi
80. Bhogeswar Baruah was the first Arjuna Award winner from Assam in 1966. Who was the second Assamese to win this coveted award of Indian sports in 1987?
- (A) Tayabun Nisha
 - (B) Monalisa Baruah Mehta
 - (C) Madalasa Hazarika
 - (D) Toshen Bora
81. Poki, presently a museum, is the ancestral house of a doyen of Assamese culture. The house remained an epitome of Indian freedom struggle as during the freedom movement the place attracted many national leaders including Mahatma Gandhi, Jawaharlal Nehru, etc. This house belonged to
- (A) Bishnu Prasad Rabha
 - (B) Dr. Bhupen Hazarika
 - (C) Phani Sarma
 - (D) Jyoti Prasad Agarwala
82. He was a teacher at Assam Engineering College and writer of *Oxanto Electron*. His actual name was
- (A) Bishnu Medhi
 - (B) Bimal Medhi
 - (C) Surendra Kumar Medhi
 - (D) Saurabh Kumar Chaliha
83. One famous road of Guwahati was named after him and he was the founder of *Assam Tribune* and *Dainik Asom*. Choose his name from the options.
- (A) Bholu Borooah
 - (B) Radha Govinda Baruah
 - (C) Padmanath Gohain Baruah
 - (D) Homen Borgohain

84. She was the niece of legendary filmmaker Pramathesh Chandra Barua and was born in Dhubri in 1934. She was conferred Padma Shri for her contribution in the folk song. She was
- (A) Parbati Prasad Barua
 (B) Sudeshna Sarma
 (C) Pratima Barua Pandey
 (D) None of them
85. The first Peasant Uprising in Assam against the British was known as which one of the following?
- (A) Patharughat Rajmel
 (B) Battle of Itakhuli
 (C) Phulaguri Dhawa
 (D) Rangiya Rajmel
86. He was a teacher at Gauhati University and was an elected MLA from Naoboicha Assembly during 1967-72. He is
- (A) Krishna Kanta Handique
 (B) Homen Borgohain
 (C) Bijay Krishna Handique
 (D) Dr. Bhupen Hazarika
87. Ramsar Convention was held at Ramsar, Iran, in 1971. Which lake of Assam is covered under this international convention?
- (A) Urapad Beel
 (B) Majuli
 (C) Khamrenga Beel
 (D) Deepor Beel
88. He was born in 1806 in Assam's Jorhat district, he introduced the tea produced by the Singpho tribe to British Officer Robert Bruce. Later he quit his job at the Assam Tea Company to establish his own Cinnamara tea garden at Cinnamara in Jorhat, thus becoming the first Indian Tea Planter to grow tea commercially. He is
- (A) Gunabhiram Barua
 (B) Anandaram Dhekial Phukan
 (C) Maniram Dewan
 (D) Purnananda Singha
89. Dr. Bhupen Hazarika received his first National Award for Best Music Director in 1975 for which film?
- (A) *Chameli Memsaab*
 (B) *Era Bator Sur*
 (C) *Aarop*
 (D) *Maniram Dewan*
90. Select the **incorrect** statement regarding Gunotsav in Assam.
- (A) Gunotsav was introduced in Assam in 2017.
 (B) Gunotsav, an initiative of the Government of Assam, is conducted covering all Elementary and Secondary Schools (Government) in the State.
 (C) Sivasagar district achieved the first position in Gunotsav 2023 and 2024.
 (D) In 2024, Gunotsav Assam was also conducted in selected colleges of the State.

91. Euphemism helps in conveying those ideas which have become social _____ and are too embarrassing to mention directly.
 (A) norm
 (B) taboo
 (C) custom
 (D) ideology
92. Which of the following is used after a nominative absolute?
 (A) Colon
 (B) Full stop
 (C) Question mark
 (D) Comma
93. Which of the following statements is correct?
 (A) My friend who lives in Mumbai is a doctor.
 (B) My friend, who lives in Mumbai, is a doctor.
 (C) My friend, who lives in Mumbai is a doctor.
 (D) My friend who lives in Mumbai, is a doctor.
94. During conversation, one should _____ patiently and _____ tactfully.
 (A) speak; listen
 (B) write; speak
 (C) listen; speak
 (D) listen; write
95. Identify the segment having grammatical error :
 Ramesh sat/in his new vehicle/and went ahead/a drive
 (A) Ramesh sat
 (B) in his new vehicle
 (C) and went ahead
 (D) a drive
96. Identify the segment having grammatical error :
 Could you please/confirm me whether/you have received/all the items you ordered?
 (A) Could you please
 (B) confirm me whether
 (C) you have received
 (D) all the items that you ordered?
97. Rearrange the parts of the sentence in correct order :
 On the 3rd of April, 2024
 P. off the Taiwan's east coast
 Q. killed by the magnitude 7.4 earthquake
 R. that struck in the morning
 S. at least 12 people were
 (A) PRQS
 (B) RSQP
 (C) PSQR
 (D) SQRP
98. Pick the wrongly spelt word.
 (A) Distrat
 (B) Anxious
 (C) Saddened
 (D) Disrupted
99. Choose the synonym for the word 'Combative'.
 (A) Belligerent
 (B) Amenable
 (C) Uncouth
 (D) Disreputable
100. Find the suitable antonym for the word 'Ancillary'.
 (A) Primary
 (B) Tertiary
 (C) Auxiliary
 (D) Secondary

SPACE FOR ROUGH WORK

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SEAL

SORFSL/BIO/24/59-A

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24T—155×4