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FREE SYLLABUS

TIFR GS Biology Syllabus

TIFR gives no fixed syllabus for the Biology (JGEEBILS) test. Here is exactly what TIFR says the test covers, plus a topic map from recent papers to revise from. Tick each topic as you finish it.

60
MCQs from **General, Physics, Chemistry and Biology**.

1 or 2
marks per MCQ. The harder Part B questions carry **2 marks**.

3
hours in total, including the **subjective questions**.

13 Dec
2026: the GS-2027 test date (**Sunday**).

The TIFR GS Biology (JGEEBILS) test

Part	What it has	Marks
MCQ Part A	Questions from General, Physics, Chemistry and Biology	1 each
MCQ Part B	**Harder questions from the same four areas**	**2 each**
Subjective assessment	Answer one of Q61 to Q63, plus both Q64 and Q65	Not scored. Used for further screening.

Negative marking. Every wrong MCQ answer is negatively marked.

Test day. Sunday, 13 December 2026, for GS-2027 admissions. Organized by TIFR with the JGEEBILS group of institutes.

What TIFR says, in its own words. The FAQ says the test covers *basics only* in physics, chemistry, maths and biology, and that "there is no guidebook and no syllabus." The exam pattern is from the official JGEEBILS exam instructions and the GS-2027 advertisement. The topic map that follows is PsiGenei guidance built from recent papers, not an official TIFR list. Checked on 31 October 2026. Official website: tifr.res.in/academics

Practice past TIFR questions free on Test Manthan.
Build a TIFR GS Biology test on just the area you revised, from past TIFR questions.
Start free on Test Manthan

SCAN TO START

- [ ] Tick a box when you finish a topic. Past TIFR papers are the best guide to how these basics are tested.

AREA 1
General & Quantitative Reasoning

PsiGenei topic map from recent papers

- [ ] **1.1** Probability, ratios, percentages and numerical estimation.
- [ ] **1.2** Reading tables, scientific figures and verbal condition constraints.
- [ ] **1.3** Units, dimensions and order-of-magnitude calculations.
- [ ] **1.4** Hypothesis testing and basic experimental data interpretation.
- [ ] **1.5** Translating a word problem into a short calculation or logical model.

AREA 2
Physics Foundations

PsiGenei topic map from recent papers

- [ ] **2.1** Mechanics, conservation of energy, work and simple harmonic oscillations.
- [ ] **2.2** Electricity, basic circuits and measurement principles.
- [ ] **2.3** Waves, optics and elementary modern physics.
- [ ] **2.4** Diffusion, scaling laws and physical reasoning in biological settings.
- [ ] **2.5** Graph analysis, proportionality and dimensional consistency.

AREA 3
Chemistry Foundations

PsiGenei topic map from recent papers

- [ ] **3.1** Atomic and molecular structure, chemical bonding and geometry.
- [ ] **3.2** Chemical equilibrium, reaction thermodynamics and chemical kinetics.
- [ ] **3.3** Acids, bases, buffers, pH calculations and electrochemistry.
- [ ] **3.4** Organic structure, functional groups, stereochemistry and reactivity.
- [ ] **3.5** Spectroscopy and chemical reasoning relevant to biological systems.

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AREA 4

Biology Foundations

PsiGenei topic map from recent papers

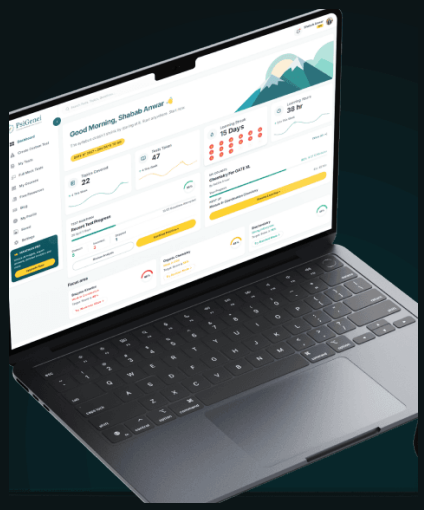
- [ ] **4.1** Cell organisation, organelles, membranes and molecular biology.
- [ ] **4.2** Classical and molecular genetics, gene expression and evolution.
- [ ] **4.3** Biochemistry, enzyme kinetics, metabolic pathways and bioenergetics.
- [ ] **4.4** Animal and plant physiology, developmental biology and ecology.
- [ ] **4.5** Experiments, positive and negative controls, mechanisms, evidence and data interpretation.

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Finished a topic? Test it the same day.

Test Manthan is PsiGenei's practice platform for TIFR GS Biology and six other exams. Build a test on just the area you revised, with past TIFR questions and practice questions.



Your dashboard: tests taken, topics covered, focus areas

Make a test in under a minute

1. Choose TIFR GS Biology.
2. Pick a subject (General, Physics, Chemistry or Biology) and the topic you finished.
3. Choose PYQs, practice questions or both. Set the number of questions and difficulty.
4. Attempt it in an exam-like screen. Then review every answer.

After every test

- Step-by-step explanations
- Accuracy for each topic
- Time spent on each question
- Where you lost marks
- What to practice next

Your TIFR test series

- Full-length mocks in the real TIFR pattern
- MCQs across all four areas, timed like the exam
- Exam-style timer and screen
- Full review after every mock

Start free: test one topic today

Free plan: 5 tests a month, up to 10 questions and 3 topics per test.

Manthan Pro: TIFR: more tests and longer tests through the year, plus the full TIFR test series.

See today's offer

SCAN TO START

Weak in Physics, Chemistry or Maths? Watch the free series *TIFR GS / JGEEBILS: PCM PYQs with Concepts* with Sabiha Parveen. psigenei.com/courses/tifr-gs-jgeebils-pcm-pyqs-with-concepts

Sources: TIFR Graduate Studies FAQ, JGEEBILS exam instructions and GS-2027 advertisement (tifr.res.in/academics), checked 31 October 2026. The topic map is PsiGenei guidance from recent papers, not an official TIFR syllabus.