

# FIITJEE Talent Reward Exam

for student presently in  
**Class 8**



## PAPER- 2

Time: 3 Hours

**CODE A8**

Maximum Marks: 258

### Instructions:

Caution: Question Paper CODE as given above MUST be correctly marked in the answer OMR sheet before attempting the paper. Wrong CODE or no CODE will give wrong results.

- You are advised to devote 1 Hour on Section-I and 2 Hours on Section-II and Section-III.
- This Question paper consists of 3 sections. All questions will be multiple choice single correct out of four choices with marking scheme in table below:

| Section                                         |         |             | Question no. | Marking Scheme for each question |              |
|-------------------------------------------------|---------|-------------|--------------|----------------------------------|--------------|
|                                                 |         |             |              | Correct answer                   | wrong answer |
| <b>SECTION – I</b><br>(IQ)                      |         |             | Q. 1 to 11   | +2                               | 0            |
|                                                 |         |             | Q. 12 to 17  | +3                               | -1           |
|                                                 |         |             | Q. 18 to 22  | +6                               | -2           |
| <b>SECTION – II</b><br>(SCIENCE & MATHEMATICS)  | Part –A | Physics     | Q. 23 to 27  | +4                               | -1           |
|                                                 | Part –B | Chemistry   | Q. 28 to 32  | +4                               | -1           |
|                                                 | Part –C | Mathematics | Q. 33 to 37  | +4                               | -1           |
|                                                 | Part –D | Biology     | Q. 38 to 42  | +4                               | -1           |
| <b>SECTION – III</b><br>(SCIENCE & MATHEMATICS) | Part –A | Physics     | Q. 43 to 48  | +6                               | -2           |
|                                                 | Part –B | Chemistry   | Q. 49 to 54  | +6                               | -2           |
|                                                 | Part –C | Mathematics | Q. 55 to 60  | +6                               | -2           |

- Answers have to be marked on the OMR sheet.
- The Question Paper contains blank spaces for your rough work. No additional sheets will be provided for rough work.
- Blank papers, clip boards, log tables, slide rule, calculator, cellular phones, pagers and electronic devices, in any form, are not allowed.
- Before attempting paper write your Name, Registration number and Test Centre in the space provided at the bottom of this sheet.

### Note:

Check all the sheets of this question paper. Please ensure the same SET is marked on header of all the sheets inside as indicated above 'Maximum Marks' of this page. In case SET marked is not the same on all pages, immediately inform the invigilator and CHANGE the Questions paper.

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the troops are typically composed of 2 to 30 members from which 1 to 4 are male adults and the rest are blackbacks adult females and their offspring groups of western lowland gorillas gorilla gorilla gorilla appear to be smaller up to 5 individuals

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where do western gorillas live western gorilla habitat the habitats of western gorillas gorilla gorilla lay at the western side of congo river they live in montane forests as well as in lowland swamp forests in contrast to eastern gorillas western gorillas live at lower altitudes about 490 to 5 200 feet above the sea level

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gorillas live in small groups called troops or bands in each troop there is one dominant male silverback some female gorillas and their offspring gorillas live around 35 years they can live longer up to 50 years in captivity they sleep at night in nests baby gorillas will stay in their mother s nests until they are around 2 ½ years old

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feb 6 2020 a gorilla family is called a troop it is the main social unit of gorillas troops range in size from 5 to 30 gorillas the head of each family is an adult male gorilla called a silverback as a male grows older and stronger the hair on his back slowly turns gray

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gorillas live in groups called troops troops tend to be made of one adult male or silverback with a harem of multiple adult females and their offspring however multiple male troops also exist

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do gorillas live in families gorillas are social animals who usually form harems one silverback male lives together with several adult females and their offspring however in mountain gorillas about 40 of groups contain several adult males who are closely related

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each has a lowland and upland subspecies gorillas live in family groups of usually five to 10 but sometimes two to more than 50 led by a dominant adult male or silverback who holds his position for years the bond between the silverback and his

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web for example it is possible to construct the scalogram based on the continuous wavelet transform cwt however a potential drawback of using the cwt is that it is computationally expensive the discrete wavelet transform dwt permits a time frequency decomposition of the input signal but the degree of frequency resolution in

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