

Roll
No.

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Serial No. of
G. C. A. B.

ಒಟ್ಟು ಪ್ರಶ್ನೆಗಳ ಸಂಖ್ಯೆ : 36 + 19 = 55]

Total No. of Questions : 36 + 19 = 55]

[ಒಟ್ಟು ಮುದ್ರಿತ ಪುಟಗಳ ಸಂಖ್ಯೆ : 32

[Total No. of Printed Pages : 32

ಸಂಕೇತ ಸಂಖ್ಯೆ : **83-E**

ವಿಷಯ : ವಿಜ್ಞಾನ

Code No. : **83-E**

Subject : **SCIENCE**

(ಭೌತಶಾಸ್ತ್ರ, ರಸಾಯನಶಾಸ್ತ್ರ ಮತ್ತು ಜೀವಶಾಸ್ತ್ರ / Physics, Chemistry & Biology)
(ಇಂಗ್ಲಿಷ್ ಭಾಷಾಂತರ / English Version)

ದಿನಾಂಕ : 03. 04. 2013]

[Date : 03. 04. 2013

ಸಮಯ : ಬೆಳಿಗ್ಗೆ 9-30 ರಿಂದ ಮಧ್ಯಾಹ್ನ 12-45 ರವರೆಗೆ]

[Time : 9-30 A.M. to 12-45 P.M.

ಪರಮಾವಧಿ ಅಂಕಗಳು : 100]

[Max. Marks : 100

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PART - A

G. No.	Marks	G. No.	Marks	G. No.	Marks	G. No.	Marks	G. No.	Marks
1.		9.		17.		25.		33.	
2.		10.		18.		26.		34.	
3.		11.		19.		27.		35.	
4.		12.		20.		28.		36.	
5.		13.		21.		29.		37.	
6.		14.		22.		30.		38.	
7.		15.		23.		31.		39.	
8.		16.		24.		32.		40.	

Total Marks of Part - A

PART - B

G. No.	Marks	G. No.	Marks	G. No.	Marks	G. No.	Marks	G. No.	Marks
37.		41.		45.		49.		53.	
38.		42.		46.		50.		54.	
39.		43.		47.		51.		55.	
40.		44.		48.		52.		56.	

Total Marks of Part - B

Total Marks in words	Registration No.	Signature of the Deputy Chief	Signature of the Room Invigilator
1. ✓			
2. ✓		✓	✓
Signature of Evaluators	Registration No.	Signature of the Deputy Chief	Signature of the Room Invigilator

11. Match the statements given in **List-A** with appropriate names given in **List-B**. Write the correct answer in the space provided : $4 \times 1 = 4$

List-A**List-B**

- | | |
|---|--|
| (a) First Indian satellite | (i) Bhaskara-1 |
| (b) First Indian remote sensing satellite | (ii) Polar Satellite Launch Vehicle (PSLV) |
| (c) First Indian geostationary satellite | (iii) Satellite Launch Vehicle-3 (SLV-3) |
| (d) First Indian rocket | (iv) Aryabhata |
| | (v) Rohini RH-75 |
| | (vi) INSAT-3E |
| | (vii) Ariane Passenger Payload Experiment
(APPLE) |

Ans. : a) _____
 b) _____
 c) _____
 d) _____

Fill in the blanks :

$3 \times 1 = 3$

12. The gravitational force between earth and an object of mass 10 kg on its surface in newtons is

13. 'I' is the intensity of scattered light of wavelength λ . The mathematical form of the statement "Intensity of scattered light is inversely proportional to fourth power of its wavelength" is

14. Name of the simplest hydrocarbon is

(SPACE FOR ROUGH WORK)

35. Draw a neat diagram of nuclear reactor and label the following parts :
- a) Control rods
 - b) Concrete shield.

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Page 20 of 32

(SPACE FOR ROUGH WORK)

Answer the following questions in *two to three* sentences each :

6 × 2 = 12

47. Differentiate between the two types of root systems found in angiosperms.

48. What are Dendrites and Axons ? Write any one difference between them.

(SPACE FOR ROUGH WORK)

51. Which are the four methods of HIV transmission ?

52. As a consumer what are your roles and responsibilities in preventing food adulteration ?

(SPACE FOR ROUGH WORK)