

# 10<sup>th</sup> National Science Day Quiz 2012

**Conducted by: Defence Science Forum**

Time: 60 min.

Total Questions: 50

Total Marks: 100

**Time: 2.30-3.30 PM      Date: 10 Feb 2012**

Bhagavantham Auditorium, Metcalfe House, Delhi

**(ALSO SIMULTANEOUSLY AT ALL DRDO LABS)**

Name:

Designation:

Lab/Estt:

Mobile No:

---

## Guidelines

- Open to all categories of officers/staff working in DRDO
- Write your Name & Lab. and MOBILE no. clearly
- Multiple choice questions are about DRDO products, services & current news
- All questions are compulsory ---- There is no negative marking
- All answers carry equal marks (1 mark) unless otherwise specified
- Mark one choice only

**Example:** Match *the following*:

**Question:**

- |                           |               |
|---------------------------|---------------|
| a) Indian Aerostat        | ( ) Rohini    |
| b) 3 D surveillance radar | ( ) Akashdeep |

Answer:

- |                           |                 |
|---------------------------|-----------------|
| a) Indian Aerostat        | ( b) Rohini     |
| b) 3 D surveillance radar | ( a ) Akashdeep |

- Objective type written test shall be conducted at respective labs/estts outside Delhi **on 10<sup>th</sup> Feb 2012** at 2.30 PM and for all Delhi based staff at **Dr Bhagavantham** Auditorium, Metcalfe House from 2.30 to 3.30 PM also **on 10<sup>th</sup> Feb 2012**.
- Labs outside Delhi shall communicate name of Top 2-3 scorer to DSF **latest by 14<sup>th</sup> Feb 2012 (4 PM) to DSF by FAX (LASTEC 01123811319) and E MAIL (vjinmas@gmail.com)**.
- **15<sup>th</sup> Feb 2012** : Tele quiz of Top 10 rankers of DRDO among all DRDO Labs (10 AM to 12 Noon only)
- Prize distribution will be on **28<sup>th</sup> Feb 2012 on National Science Day at Delhi**.

Helpline: 09891310600, 09968919500

1. DRDO was formed in  
 (a) 1947 (b) 1950 (c) 1954 **(d) 1958**
2. Name the Medium Altitude Long Endurance (MALE) *Unmanned Aerial Vehicle* – whose trial was carried out 2010  
**(a) Rustom** (b) Mareech (c) Nano (d) BrahMos
3. What is the name of *Indian Aerostat* of 2000 cum capacity?  
 (a) Rustom (b) Mareech **(c) Akashdeep** (d) BrahMos
4. French firm Dassault has won a multi-billion dollar contract to provide \_\_\_\_\_ fighter jets to the Indian military  
 (a) 120 (b) 124 **(c) 126** (d) 130
5. Name the *Advanced Torpedo Defence System (ATDS)* developed by DRDO  
 (a) Rustom **(b) Mareech** (c) Akashdeep (d) MLRS
6. Match the following **5 Marks**
- |                         |                                   |
|-------------------------|-----------------------------------|
| a. Dr K Radhakrishnan   | ( a ) Chairman, ISRO              |
| b. Dr S Ayyappan        | ( e ) DG (ICMR)                   |
| c. Dr MK Bhan           | ( c ) Secy, Dept of Biotechnology |
| d. Prof S K Brahmachari | ( d ) DG (CSIR)                   |
| e. Dr VM Katoch         | ( b ) DG (ICAR)                   |
7. Name the lab which has developed state-of the-art test system for comprehensive *evaluation of Laser Guided Munitions (LGM)* delivery kit  
 (a) VRDE (b) DFRL (c) DRDE **(d) LASTECH**
8. What is the *grade pay for Scientist F* (in Rupees)?  
 (a) 2700 (b) 6500 **(c) 8900** (d) 10000
9. A permanent DRDO exhibition known as *Darpan* is established at  
 (a) VRDE (b) INMAS (c) DRDE **(d) RAC**
10. The *three-stage Agni-V* has a range of  
 (a) 2000 KM (b) 3000 KM (c) 4000 KM **(d) 5000 KM**
11. The *DRDO-FICCI programme* to create commercial pathway is popularly known as  
 (a) ASPIRE (b) ENERGY **(c) ATAC** (d) DRFI

- 12.** *Honorable PM of India* declared 2012 to be the National \_\_\_\_\_ Year  
 (a) Physics                    **(b) Mathematical**                    (c) Nano Science    (d) Metallurgy
- 13.** \_\_\_\_\_ radar is an indigenous 3 D surveillance radar development by LRDE  
**(a) Rohini**                    (b) Sarvatra                    (c) Mareech                    (d) Agni III
- 14.** Indian army's oldest T-72 tanks, entered service in  
 (a) 1960                    (b) 1962                    (c) 1965                    **(d) 1969**
- 15.** *National Science Day* is celebrated on  
 (a) 11 May                    (b) 1 Jan                    **(c) 28 Feb**                    (d) 15 May
- 16.** The Robotics Development Centre, *Saksham* is located at  
 (a) VRDE                    **(b) R&DE(E)**                    (c) DRDE                    (d) HEMRL
- 17.** *Lukoskin*, a herbal product for Leucoderma is developed by  
 (a) INMAS                    **(b) DIBER**                    (c) DRDE                    (d) DEBEL
- 18.** This DRDO lab has successfully launched imported pilot-less target aircraft (PTA)- KD2R5 utilising *Mobile Hydro-Pneumatic Launcher (MHPL)* developed for 'Nishant' UAV  
 (a) VRDE                    **(b) R&DE(E)**                    (c) ADRDE                    (d) HEMRL
- 19.** This DRDO lab has developed *Anti-thermal, Anti-laser smoke grenade*  
 (a) LASTEC                    (b) R&DE(E)                    (c) DRDE                    **(d) HEMRL**
- 20.** She created history when *she led the Air Force contingent* at the 63rd Republic Day parade becoming the first woman pilot to do so  
 (a) Madhu Bala    (b) Kuldeep Kaur    (c) Veena Pillai    **(d) Sneha Shekhawat**
- 21.** This Lab has developed *Alocal*, an Aloe Vera based cream containing 50 per cent Aloe Juice (w/w)  
**(a) DIPAS**                    (b) DIBER                    (c) DIHAR                    (d) DRDE
- 22.** The 40 mm *Under Barrel Grenade Launcher (UBGL)* is designed and developed by  
 (a) VRDE                    **(b) ARDE**                    (c) DRDE                    **(d) ARDE**
- 23.** Launch of \_\_\_\_\_ nuclear -powered submarine, propelled India into an elite club of the six technologically most advanced countries of the world  
 (a) INS Shivalik    (b) INS Trishul    (c) INS Ganga    **(d) INS Arihant**

24. A one-day *Indian Pharmaceutical Industry-DRDO* Drug Development Meet- was organized on 28 Jan 2011 by the following DRDO Lab

- (a) DLRL (b) DEAL (c) **INMAS** (d) DEBEL

25. Specialty low-alloy steel *DMR-1700* a cost-effective replacement of maraging steels is product of

- (a) DLRL (b) DEAL (c) **DMRL** (d) DEBEL

26. 98<sup>th</sup> Indian Science Congress (ISC-2011) was held at

- (a) **SRM University** (b) KIIT Univ (c) IIT, Chennai (d) IISc, Bangalore

27. Hon'ble Raksha Mantri Shri AK Antony, inaugurated DRDO's state of the art composite propellant processing facility – *Advanced Centre for Energetic Materials (ACEM)* at Nasik on 29 June 2011. The facility has been setup by

- (a) VRDE (b) ADE (c) ADA (d) **HEMRL**

28. One of the following is the name of a *Pilotless Target Aircraft*

- (a) **Lakshaya** (b) Pinaka (c) Limpet (d) Nang

29. Dr VK Saraswat, inaugurated the *Structural Dynamics Laboratory (SDL)* at National Centre for Automotive Testing, on 29 June 2011 at

- (a) **VRDE** (b) DMSRDE (c) DRDE (d) HEMRL

30. Match the following

**12 Marks**

- a. Dr A Sivathanu Pillai ( a ) DS & CC R&D, CEO, BRAHMOS  
b. Shri Avinash Chander ( c ) DS & CC R&D (LS & IC)  
c. Dr W Selvamurthy ( b ) DS & CC R&D (MSS)  
d. Shri G Elangovan ( d ) DS & CC R&D (Avionics)  
e. Dr S Sundaresh ( f ) DS & CC R&D (Aero)  
f. Dr A Subhanand Rao ( e ) DS & CC R&D (ACE & SI)  
g. Dr V Bhujanga Rao ( g ) DS & CC R&D (HR)  
h. Dr KD Nayak ( h ) DS & CC R&D (MED & MIST)  
i. Dr K Sekhar ( i ) OS & CC R&D (LIC & Implementation)  
j. Dr J Narayana Das ( k ) OS & CC R&D (ECS)  
k. Dr R Sreehari Rao ( j ) OS & CC R&D (NS & M)  
l. Maj Gen Anoop Malhotra ( l ) CC R&D (R&M)

**31.** Dr APJ Abdul Kalam, inaugurated state-of-the-art *Navigation and Embedded Computers Complex* on 9 Dec 2011 at

- (a) RCI (b) FRL (c) ITR (d) DFRL

**32.** DRDO and ICAR signed a MoU for conservation of plant genetic resources -- '*Permafrost-based Plant Germplasm Storage*' at Chang La (5,360 m AMSL), at

- (a) Leh (b) Almora (c) Tezpur (d) Tawang

**33.** Match the following DSF Orations (DRDO Orator Vs Oration Title) **12 Marks**

- |                               |   |
|-------------------------------|---|
| a. Prof. Manas K Mandal       | ( a ) Side Biases in Human Behaviour                  |
| b. Rajyogini Dadi Janki       | ( b ) Tanaavrahit kaaryasthal ka nirmaan              |
| c. Lt Gen J P Singh           | ( k ) Heart to Heart                                  |
| d. AVM M Matheswaran          | ( f ) National Technology Day Oration                 |
| e. Dr Kiran Bedi              | ( e ) Secret steps to success                         |
| f. Dr. W Selvamurty           | ( d ) Empowering the Nation: Together We Can          |
| g. Prof Anil K. Gupta         | ( g ) Harnessing Creativity & Innovation in Workplace |
| h. Dr. VK Saraswat            | ( l ) Art of Leadership                               |
| i. Prof Dinesh Singh          | ( i ) A History of Indian Mathematics                 |
| j. H.H. YogRishi Swami Ramdev | ( j ) Yoga for Healthy living                         |
| k. Dr. Naresh Trehan          | ( c ) Transforming the Indian Army                    |
| l. H.H. Sri Sri Ravi Shankar  | ( h ) Creativity and Innovation                       |

**34.** Rearrange the following labs/estts by location *moving from South to North* (1 to 5) **5 Marks**

- DIHAR ( 5 )
- CVRDE ( 1 )
- ADRDE ( 2 )
- SAG ( 3 )
- SASE ( 4 )

35. Name the lab associated with indigenously development of *Airborne Early Warning and Control (AEW&C) System*

- (a) **CABS** (b) ADA (c) ADE (d) R&DE (E)

36. *Remotely operated vehicle (ROV) Daksh*, is designed and developed by

- (a) **R& DE(E)** (b) DMSRDE (c) DRDE (d) DL

37. *Pinaka* is a

- (a) **MBR System** (b) Missile (c) Bomb (d) Submarine

38. Name the DRDO Chief recently honored with release of a *Commemorative postal stamp*

- (a) **DS Kothari** (b) S. Bhagavantam (c) Nag Chowdhury (d) Raja Ramanna

39. The *National Design Award-2011* was awarded to Mr. P S Subramanyam, Programme Director (Combat Aircrafts). He is also Director of

- (a) DMRL (b) ASL (c) **ADA** (d) ADE

40. *Technology Day* is celebrated on

- (a) **11 May** (b) 1 Jan (c) 28 Feb (d) 15 May

41. Match the following prominent "DRDO Women Scientists" **5 Marks**

- |                           |                                 |
|---------------------------|---------------------------------|
| a. Dr Shashi Bala Singh   | ( d ) Project Director, AGNI-4  |
| b. Dr Chitra Rajagopal    | ( e ) Director, MIST, DRDO      |
| c. Dr G Rohini Devi       | ( c ) Program Director, ASL     |
| d. Ms Tessy Thomas        | ( a ) Director, DIPAS           |
| e. Ms Nabanita R Krishnan | ( b ) Associate Director, CFEES |

42. This year's on Republic Day Parade, DRDO tableau depicting innovative technologies had *central theme on activities* of which DRDO Lab/Estt

- (a) **SASE** (b) DMRL (c) DIHAR (d) LASTEC

43. Name-- a *Medium Altitude Long Endurance Unmanned Aerial Vehicle (UAV)* that takes off and lands like a conventional aircraft

- (a) NAG (b) Pinaka (c) LCA (d) **Rustom - 1**

44. *Prahar*-- a Tactical Battlefield support high speed Missile based on solid propulsion has a range of

- (a) 10 KM (b) 50 KM (c) 100 KM (d) **150 KM**

45. Agni 4-- the most potent and technologically advanced among India's strategic arsenal, has a range of  
(a) 1000 KM (b) 2000 KM (c) **3000 KM** (d) 5000 KM

46. DRDO – very recently signed a MOU for Enhanced Academic Interaction and R&D collaboration with  
(a) BHU (b) KU (c) **DU** (d) BU

47. Lakshya-II has been designed and developed by  
(a) ADA (b) **ADE** (c) GTRE (d) DTRL

48. Match the following **15 Marks**

- |                              |  |
|------------------------------|--|
| a) Radar                     | (j ) Result Framework Document             |
| b) PBX                       | (b ) Plastic bonded explosives             |
| c) ELISA Kit                 | (g ) Bhim T6                               |
| d) Naval EW System           | (h ) BLT 72                                |
| e) Assault bridge            | (i ) Ajeya                                 |
| f) Mini unmanned air vehicle | (d ) SANGRAHA                              |
| g) 155 mm SP gun             | (c ) Kit: identification of food pathogens |
| h) Bridge layer tank         | (a ) Indra                                 |
| i) T 72 M1 tank              | (l ) Mine Anti-Persnl Infmable             |
| j) RFD                       | (f ) Netra                                 |
| k) Communication EW system   | ( k ) SUJAV                                |
| l) MAPI                      | (e ) Sarvatra                              |
| m) HELINA                    | ( m ) helicopter-mounted Nag               |
| n) Decontamination kit       | ( n ) Shudhika                             |
| o) Bullet proof jackets      | ( o ) Jackal Steel                         |

49. Match the DRDO Awards (2010) Vs Lab **3 Marks**

- |                                      |            |
|--------------------------------------|------------|
| a. Silicon Trophy 2010               | ( a ) RCI  |
| b. Titanium Trophy 2010              | ( c ) DFRL |
| c. Defence Technology Spin-Off Award | ( b ) DL   |

50. 100<sup>th</sup> Indian Science Congress (ISC-2013) will be held at  
(a) Chandigarh (b) **Kolkata** (c) Chennai (d) Bangalore