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முழுப் பதிப்புரிமையடையது.]
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Open Competitive Examination for Recruitment to Posts which have fallen Vacant in Grade III of
Sri Lanka Scientific Service - 2015 (2017)

One hour

(01) Intelligent Test

Instructions to Candidates

Very Important :

Do not use Pencils
to write answers.



* Answer scripts where the numbers are not written as indicated below will not be marked / evaluated.

1 2 3 4

Write your Index Number here, and
on page 3 in the space indicated.

.....

Checked as correct

.....

Invigilator's Initials

Important :

- * This paper consists of 50 questions on 7 pages.
- * Before answering the paper arrange all the pages in order.
- * Answer **all** questions on this paper itself.
- * The time allowed for this paper is **one hour**.
- * Commence answering only after the Centre Supervisor's announcement.
- * Calculators should not be used.
- * Instructions given should be strictly followed in answering this paper and marks will not be awarded for answers not in accordance with these instructions.
- * Even if you are not attempting the paper hand it over to the Supervisor.
- * Write the answers clearly and legibly in **blue** or **black** ink only and **not** in pencil.
- * It is an offence to remove this paper from the examination hall or turn out photocopies of the same.
- * Answer scripts with illegible figures, illegible handwriting, those where erasing fluid has been used and written in pencil will not be marked / evaluated.

For Examiner's use only

Page No.	Question No.	Marks Awarded
2	1 - 12	
3	13 - 21	
4	22 - 30	
5	31 - 36	
6	37 - 43	
7	44 - 50	
Total		

Final Score

In figures	
In words	
Marking Examiner	
Checked by	

● Under each question from No. 1 to 5 four words are given. Of them three words can be grouped into one according to a certain feature. Select the remaining word that **cannot be** grouped and write the **number** of the relevant choice **on the dotted lines** given against the question.

- 1. (1) jack (2) rambutan (3) coconut (4) mango (.....)
- 2. (1) canoe (2) float (3) bicycle (4) motorbike (.....)
- 3. (1) phylaria (2) measles (3) dengue (4) malaria (.....)
- 4. (1) tank (2) stream (3) river (4) lake (.....)
- 5. (1) teacher (2) doctor (3) trader (4) carpenter (.....)

● Under each question from No. 6 to 10 two pairs of words with a blank are given. Select the most suitable word to put into the blank to have a similar relationship in the second pair of words to the first pair of words and write the **number** of the relevant choice **on the dotted lines** given against the question.

- 6. ball : game :: book :
(1) letters (2) pages (3) learning (4) papers (.....)
- 7. book : letters :: rainbow :
(1) colours (2) sky (3) clouds (4) sunlight (.....)
- 8. artist : colours :: musician :
(1) composition (2) tune (3) notations (4) songs (.....)
- 9. education : literacy :: poverty :
(1) famine (2) malnutrition (3) illiteracy (4) subsidies (.....)
- 10. kite : string :: car :
(1) wheels (2) engine (3) fuel (4) steering wheel (.....)

● Under each question from No. 11 to 15 two statements **A, B** and two conclusions I, II that can be expected to be reached based on the two statements are given. Although the two statements seem to be false, they should be considered as true here.

Based only on the given two statements, out of the two conclusions,

- * if to conclusion I can definitely be reached write No. 1
- * if to conclusion II can definitely be reached write No. 2
- * if to both conclusions I and II can definitely be reached write No. 3
- * if to any of the conclusions I and II **cannot** definitely be reached write No. 4

on the dotted lines given against the question.

- 11. **Statement A** : Every insect is a poisonous creature.
B : Every poisonous creature is living on land.
Conclusion I : Every insect is a creature living on land.
II : Some creatures that are living on land are poisonous. (.....)
- 12. **Statement A** : All the crows are birds.
B : All the butterflies are birds.
Conclusion I : Some butterflies are crows.
II : There are no butterflies that are crows. (.....)



13. **Statement A** : All the roads are rivers.
B : Some roads are canals.
Conclusion I : Some rivers are canals.
II : All the canals are roads. (.....)
14. **Statement A** : Some newspapers are pens.
B : All the pens are pencils.
Conclusion I : Some newspapers are pencils.
II : There are newspapers which are not pencils. (.....)
15. **Statement A** : All the rambutan trees bear fruits.
B : All the rambutan trees grow well.
Conclusion I : All the trees that grow well are rambutan trees.
II : There are trees that grow well and bear fruits. (.....)

- Questions from No. 16 to 20 are based on the following information on three married couples consisting of persons A, B, C, D, E and F.

- * A, B and C are the three husbands.
- * Each couple is engaged in the same profession.
- * A, B and D are engaged in different professions.
- * B and F are younger than A in one year. Likewise E is older than A in one year.
- * The couple who are the doctors in profession are born in the same year.
- * The husband who is a teacher is younger than B.
- * One couple is managers by profession.

According to this information select the correct answer for each question and write the **number** of the relevant choice **on the dotted lines** given against the question.

16. Which of the following couple is born in the same year?
(1) B and F (2) C and E (3) D and E (4) D and F (.....)
17. Who is the manager by profession?
(1) B (2) C (3) E (4) F (.....)
18. Which of the following is a teacher?
(1) B (2) C (3) E (4) F (.....)
19. Who is the doctor by profession?
(1) C (2) D (3) E (4) F (.....)
20. Which of the following is a married couple?
(1) A and E (2) A and F (3) C and E (4) B and D (.....)

- Select the correct answer for each question from No. 21 to 25 and write the **number** of the relevant choice **on the dotted lines** given against the question.

21. In a certain class the students' mean mark for mathematics was 55. But after a correction, one student's mark has been deducted by 5 and the students mean mark of mathematics became 54.8. Accordingly, how many students were in that class?
(1) 10 (2) 20 (3) 25 (4) 30 (.....)

22. Of the candidates who appeared for a certain test 75.6% are females. Accordingly, what is the **minimum** number of males who appeared for the test?
(1) 24 (2) 61 (3) 122 (4) 244 (.....)
23. Four bells ring after 5 minutes, 6 minutes, 10 minutes and 12 minutes respectively. The four bells rang at 6.00 a.m. altogether. Accordingly, how many times those four bells will be ringing altogether before 10.00 a.m.?
(1) 1 (2) 2 (3) 3 (4) 4 (.....)
24. The present age of a father is three times the age of the son. Before 5 years, the age of the father was four times the age of the son. Accordingly, what is the present age of the son in years?
(1) 12 (2) 15 (3) 18 (4) 20 (.....)
25. How many different multiples of 5 more than 40000 can be made by using each digit in the number 24589 at once?
(1) 9 (2) 12 (3) 18 (4) 24 (.....)

● Questions from No. 26 to 30 are based on the following information on seven trees ironwood, olive, banyan, ebony, mango, teak and palmyrah in a certain botanical garden.

- * The Palmyrah tree is situated west of the office.
- * The mango tree is situated south east of palmyrah tree and south west of the office.
- * The olive tree is situated west of mango tree and south of teak tree.
- * The teak tree is situated north of palmyrah tree.
- * The banyan tree is situated south west of the office and south east of the teak tree.
- * The banyan tree is situated north of the ebony tree.
- * The olive, mango, ebony trees are in the same line.
- * The distance from the banyan tree to mango tree and from banyan tree to the office has the same distance.
- * There is an ironwood tree north of the office and north east of the olive tree.

According to this information select the correct answer for each question below and write the **number** of the relevant choice **on the dotted lines** given against the question.

26. What is situated east of the teak tree?
(1) ebony tree (2) ironwood tree (3) mango tree (4) office (.....)
27. In what direction the palmyrah tree is situated from the olive tree?
(1) north (2) south (3) east (4) west (.....)
28. What is the tree that situated southwest of banyan tree?
(1) ironwood tree (2) teak tree (3) mango tree (4) palmyrah tree (.....)
29. In which direction the ebony tree is situated from the mango tree?
(1) south west (2) north east (3) west (4) east (.....)
30. Which of the followings can be situated with an equal distance to the distance between the olive tree and the palmyrah tree?
(1) palmyrah tree and teak tree (2) palmyrah tree and the office
(3) olive tree and the office (4) mango tree and the office (.....)



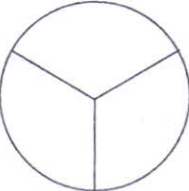
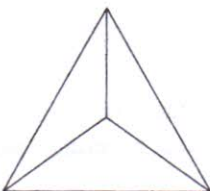
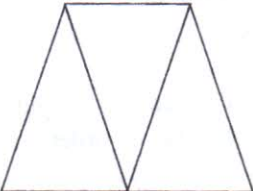
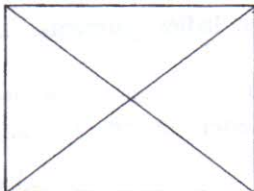
● Questions from No. 31 to 35 are based on the following information on seating arrangements of eight officers of four voluntary organizations A, B, C and D who sat in the front row eight seats in a certain hall.

- * Four people came from two organizations as the chairman and the secretary from each organization.
- * Four people came from other two organizations as the chairman and the treasurer from each organization.
- * The secretary and the chairman who came from the same organization have seated close to each other and the secretary sat leftside of the chairman.
- * The chairman and the treasurer who came from the same organization did not sit closely to each other.
- * The two officers from the organization A sat either sides of an officer participating from the organization D.
- * A treasurer was sat at the left end of the row and a secretary was seated close to him.
- * Four officers were seated between the two secretaries.
- * An officer from the organization D was seated in the right side of the seat of the officers of the organization B but not close the them.

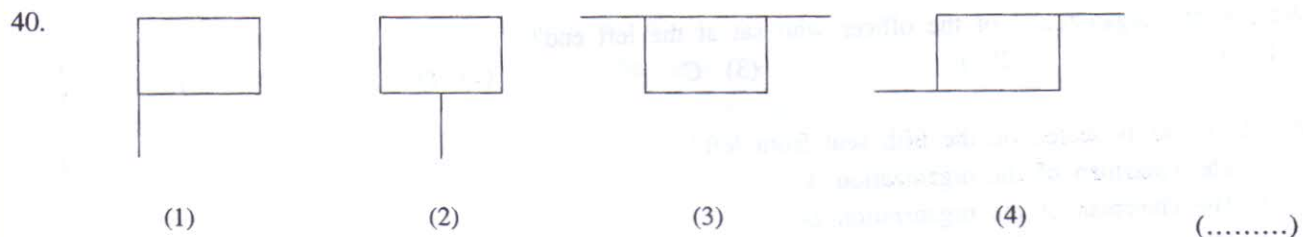
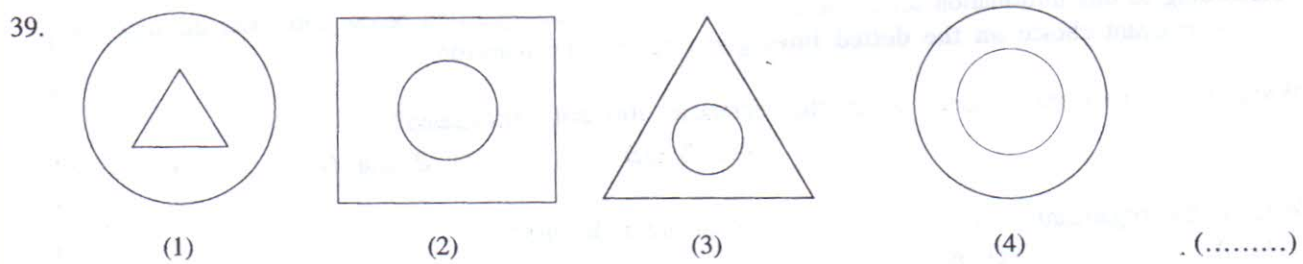
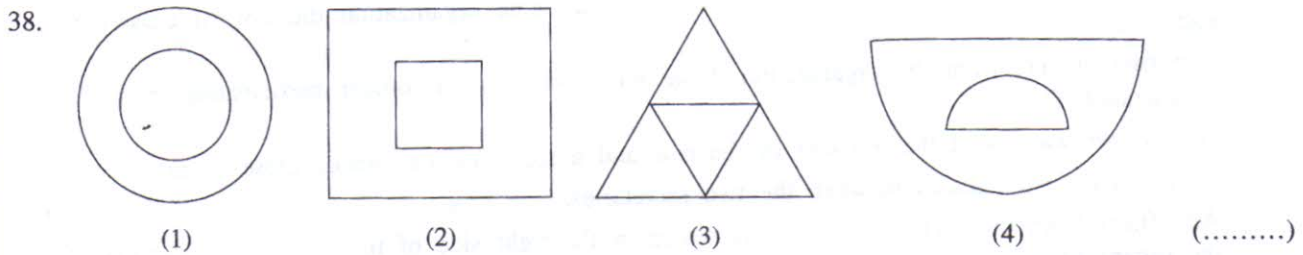
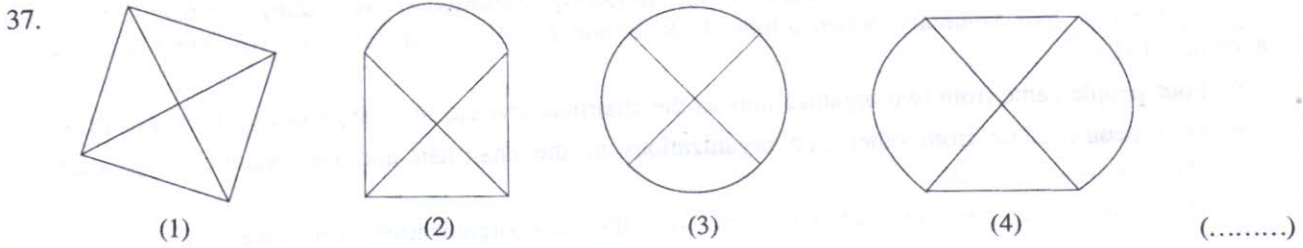
According to this information select the correct answer for each question below and write the **number** of the relevant choice **on the dotted lines** given against the question.

31. What are the **two** organizations which the secretaries **did not** participated?
(1) A and C (2) A and D (3) B and C (4) B and D (.....)
32. What is the organization of the officer who sat at the right end?
(1) A (2) B (3) C (4) D (.....)
33. What is the organization of the officer who sat at the left end?
(1) A (2) B (3) C (4) D (.....)
34. Which officer is seated on the fifth seat from left?
(1) The chairman of the organization A
(2) The chairman of the organization D
(3) The secretary of the organization B
(4) The secretary of the organization C (.....)
35. If two chairmen are sitting right side of the chairman of the organization D, which officer is seated as the sixth from left?
(1) The secretary of the organization A
(2) The chairman of the organization A
(3) The secretary of the organization C
(4) The treasurer of the organization C (.....)

● Under each question from No. 36 to 40 four figures are given. Of them there is a common feature in three figures. Select the remaining figure that **does not** have that common feature and write the **number** of the relevant choice **on the dotted lines** given against the question.

36.  (1)  (2)  (3)  (4) (.....)





● Select the correct answer for each question from No. 41 to 45 and write the **number** of the relevant choice **on the dotted lines** given against the question.

41. Saman has walked to a certain direction from place A which is situated close to a light post and east of it. Ajith who was near to him noticed that the shadow of Saman which is created by the light of the light-post was becoming shorter gradually. Accordingly, to which direction that Saman had walked?

(1) North (2) South (3) East (4) West (.....)

42. Which of the following three sets depict a similar relationship to the relationship exists between the three sets quadrupeds, carnivores and deer?

(1) fruits, apples, imported foods
(2) literary works, Sinhala novels, books written in English.
(3) roses, shoe flowers, red colour flowers
(4) sarees, ladies garments, jackets (.....)

43. Which of the following four group of letters to be put into the blanks in order to arrange the set of letters ab_cba_bcc_aabccb_abc_ba in order to marked a certain pattern?

(1) caaaa (2) aabaa (3) cabac (4) cbaac (.....)

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Open Competitive Examination for Recruitment to Posts which have fallen
Vacant in Grade III of Sri Lanka Scientific Service - 2015 (2017)

(02) General Question Paper

Three hours

Answer **all** the questions in part **I** on **this paper itself**. Select **five** questions from part **II**.
After answering all the **two** parts handover them to the supervisor by annexing part **I** and **II**.

Index No :

Part I

- Answer questions from 1 to 25 on the dotted line assigned to each question.
- 1. What is the name of the Foundation which makes national awards for Science and Technology achievement in Sri Lanka?
.....
- 2. What is the national honour awarded for outstanding scientific and technological achievements in Sri Lanka?
.....
- 3. What is the name of the institution which grants the SLS certificate?
.....
- 4. What is the name of the government project which takes technology to the villages of Sri Lanka?
.....
- 5. Who is the Sri Lankan born British astronomer who has advocated a theory that extra-terrestrial life was for more advanced than mankind?
.....
- 6. What is the name of the Sri Lanka's village which is expected to be declared a world heritage?
.....
- 7. What was the year in which Ceylon became Sri Lanka in official terms?
.....
- 8. Who were the foreigners who introduced European vegetables to Nuwara Eliya?
.....
- 9. What was the **earliest** spice kind exported from Sri Lanka?
.....
- 10. Who was the first Muslim who brought about a regeneration of Islam in Sri Lanka?
.....

11. Who was the great Sri Lankan-Tamil savant who interpreted to the world the greatness of Sri Lankan and Indian arts and architecture?
.....
12. What was the **most significant** technological creation of the ancient hydraulic civilization of Sri Lanka associated with the Tank?
.....
13. What is the date on which the World Science Day is observed?
.....
14. What is said to be the **major** reason for the mysteriously disappearing bees from around the Planet Earth?
.....
15. What is the name of the SAARC country which has a sixty six percent of forest coverage?
.....
16. Presently, how many member countries are there in the United Nations Organization?
.....
17. Who was the multi-skilled savant who drew the most accurate dissection of the human anatomy?
.....
18. What is the **saltiest** sea in the world?
.....
19. What is the name of the Asian country which allocates the **largest** sum of money for Research and Development?
.....
20. After which UN Agreement the 'carbon-credit' concept originated?
.....
21. Who is the author of the Harry Potter stories?
.....
22. Which country now account for 93 % of the global production of opium, the raw material for heroin?
.....
23. What is 'Data Mining'?
.....
24. Which country has a royal dynasty going back to 2600 years of history?
.....
25. Who was the great Scientist who develop a new theory about humankind after making observations in the Galapagos Islands?
.....

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Open Competitive Examination for Recruitment to Posts which have fallen
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(02) General Question Paper

Answer **five** questions only.

Answer the questions of this part in the sheets given to you and attach them with the answer scripts of part I and handover to the supervisor.

Part II

1. Climate changes have become a critical issue in the world at present.
 - (i) Define what 'climate change' is.
 - (ii) Explain **two** initiatives of the UN in grappling with the climate change.
 - (iii) Examine the value of **four** programmes of the Sri Lankan government in tackling climate change.
2. Sri Lanka Government has pledged to alleviate poverty in 2017.
 - (i) Clarify what 'poverty' is.
 - (ii) Figure out **two** reasons for the occurrence of poverty.
 - (iii) Examine **four** approaches which Sri Lankan Government has undertaken to alleviate poverty.
3. Nanotechnology is widely known for its role in helping development.
 - (i) Define what 'nanotechnology' is.
 - (ii) State **two** of the benefits of nanotechnology.
 - (iii) Examine **four** ways how nanotechnology could accelerate development in Developing Countries.
4. One of the major challenges of Sri Lanka at present is how to bring about national integration.
 - (i) What is meant by 'national integration'.
 - (ii) Explain **two** of the main **barriers** encountered in bringing about national integration.
 - (iii) Examine how new thinking in economics, education, culture and governance could contribute towards national integration.
5. Globalization is taking place all over the world.
 - (i) Define 'globalization'.
 - (ii) State **two disadvantages** of westernization of cultures due to globalization.
 - (iii) Examine **four** beneficial features of globalization.

6. "Never before in history has innovation offered so much to so many in so short a time" - Bill Gates.
- (i) Define the concept of 'innovation'.
 - (ii) State the use of **two** innovations of Chinese during the Middle Ages.
 - (iii) Evaluate the effect of **four** innovations created during the first decade of the 21st century.
7. Futurists have identified some of the skills needed for the 21st Century.
- (i) Define the term 'skills'.
 - (ii) State **two** skills needed for a world citizen.
 - (iii) Examine **four** major skills required by a Sri Lankan to lead an effective life.
8. Technology has changed all aspects of life of man in the present world.
- (i) State the meaning of 'technology'.
 - (ii) State **two** changes in the life style of people with the new technologies with examples.
 - (iii) Examine **four** ways to **humanize** technology for the betterment of the lives of mankind.

* * *