

TEST CODE  
110517



WGSE 2016

CLASS 05 Time :  
90 Minutes

# World Genius Search Examination™ - 2016

Your WGSE Roll No

Student's Name

Student's Signature \_\_\_\_\_

### INSTRUCTIONS TO THE CANDIDATE

1. **DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO.**
2. Fill and sign the Question Booklet. You can carry this booklet with you after you finish the test at the scheduled time.
3. Fill the information required in the answer sheet. Answer sheets with incomplete information may not be evaluated.
4. Do not seek clarification on any item in the test booklet from anyone including the test invigilator or the center supervisor. Use your best judgement.
5. This booklet consists of three sections as given below :  
**SECTION-1: MATHEMATICS** – 15 Questions, **SECTION-2: SCIENCE** – 15 Questions, **SECTION-3: ENGLISH** – 15 Questions, **SECTION-4: GENERAL KNOWLEDGE** – 5 Questions, **SECTION-5: LOGIC** – 5 Questions, and **SECTION-6: INFORMATION TECHNOLOGY** – 5 Questions.
6. In case of any problem with your test booklet, inform the invigilator immediately. You will be provided with a replacement.
7. Use of standalone Calculator is allowed. Mobile phones are strictly prohibited.
8. Use **HB PENCILS** only for marking answers on the OMR sheet. Do not use pens.
9. **Each question carries 2 marks. Questions 1 to 60 will have one correct answer. Shading one or more wrong bubble/s make the answer wrong. There are no negative marks allotted to wrong answers.**
10. Use the margin in the **Question Booklet** for rough work. No other piece of paper is permitted to be used for rough work. Failure to follow instructions and examination norms will lead to disqualification.
11. Your **ADMIT CARD** should be returned to the invigilator with your answer sheet.

**PLEASE WAIT FOR THE SIGNAL TO OPEN THE TEST BOOKLET**

Open from this side →

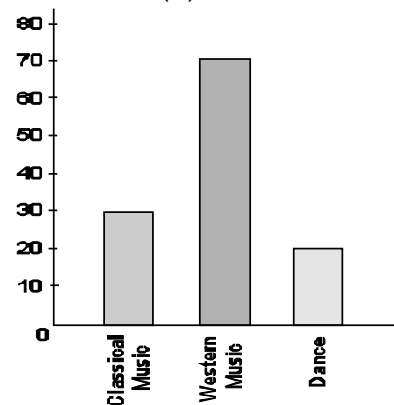


**Important Note:** Questions from 1 to 60 will have only one right answer. To score marks for each question, bubble for the right answer option should be shaded. Shading more than one bubble or a wrong bubble makes the answer wrong. No marks are given for wrong answers.

## MATHEMATICS

1. Afreen used a crayon to draw a shape on a piece of paper. The shape had 6 angles which are more than right angles. Which shape could Afreen have drawn?  
 (a) Rectangle            (b) Hexagon            (c) Triangle            (d) Pentagon
  
2. What is the most appropriate sign that make the following statement true?  
 $6.5 \ ? \ 5.8$   
 (a)  $>$                     (b)  $<$                     (c)  $\neq$                     (d)  $=$
  
3. The month before the chicken farm expanded, it produced 34,931 eggs. The month after, it produced 62,066 more eggs than that. About how many eggs were produced that month? Choose the better estimate.  
 (a) 60,000            (b) 6,000            (c) 90,000            (d) 9,000
  
4. A clock shows 12.00 Noon. What is angle between its minute hand and hour hand?  
 (a)  $0^\circ$                     (b)  $90^\circ$                     (c)  $180^\circ$                     (d)  $270^\circ$
  
5. Wisden lights a candle daily for one hour. The candle is 11 centimeters and 2 millimeters long. When it burns for one hour, its length gets reduced by 16 millimeters. For how many days Wisden can use the candle?  
 (a) 16                    (b) 12                    (c) 10                    (d) 7

**Direction:** Observe the graph given alongside and answer the questions **6** to **8**. Vidya and Hypatia are attending a Music & Dance School. Both of them are attending Classical Music, Western Music and Dance classes of the School. The graph indicates the number of students attending various classes in the school. 20 students who are attending Classical Music are attending Western Music and 15 students who are attending Classical Music are attending dance classes too.



6. What can be the minimum number of students attending all the three classes?  
(a) 20 (b) 15 (c) 10 (d) 5
7. What can be the maximum number of Western Music students attending Dance classes?  
(a) 20 (b) 15 (c) 10 (d) 5
8. What can be the maximum number of Western Music students not attending Dance classes?  
(a) 20 (b) 15 (c) 10 (d) 50
9. A girl has to be at school by 8:00 a.m. It takes her 20 minutes to have breakfast, 35 minutes to get dressed, and 15 minutes to walk to school. What time should she get up in the morning?  
(a) 7:00 a.m. (b) 6:50 a.m. (c) 6:40 a.m. (d) 6:30 a.m.
10. Which set of numbers is ordered from greatest to least?  
(a)  $0.1 > \frac{3}{8} > \frac{7}{10}$  (b)  $\frac{3}{8} > \frac{7}{10} > 0.1$  (c)  $\frac{7}{10} > \frac{3}{8} > 0.1$  (d)  $\frac{7}{10} > 0.1 > \frac{3}{8}$
11. Which of the following gives an odd number?  
(a)  $45+25$  (b)  $55+22$  (c)  $22+32$  (d)  $33+17$
12. An airline owns 8 airplanes. Every airplane they own has 10 rows of seats with 7 seats in each row. Each airplane makes 7 flights a day. How many passengers can the airline carry each day?  
(a) 490 (b) 3920 (c) 1960 (d) 3120
13. Quotient  $\times$  Divisor + Remainder = Dividend, which one of the following is true?  
(a) divisor = remainder (b) divisor  $>$  remainder  
(c) divisor  $<$  remainder (d) divisor = Dividend
14. The place value of 8 in 5.238 is  
(a) 8 (b)  $\frac{8}{10}$  (c)  $\frac{8}{100}$  (d)  $\frac{8}{1000}$
15. Average of first four multiples of 5 is  
(a) 10 (b) 50 (c)  $12\frac{1}{2}$  (d) 12

**SCIENCE**

16. Which is a testable and possible answer to a scientific question called?  
(a) Hypothesis (b) Conclusion (c) Evidence (d) Criteria
17. Why lemon floats on salty water?  
(a) Salt makes lemon lighter.  
(b) The juice from lemon slowly mixes with water.  
(c) Salt makes water heavier than lemon.  
(d) Water is heavier the lemon.
18. Petroleum is the treasure we extract from earth. Which category it belongs to?  
(a) Renewable energy (b) Hyderal energy (c) Bio energy (d) Fossil fuels
19. Why a ball thrown up comes down?  
(a) Air around the ball pushes it down  
(b) The earth pulls everything towards it  
(c) The ball is filled with air and heavy  
(d) The ball is made of rubber
20. While orbiting the earth in spaceships weightlessness is experienced due to  
(a) Inertia (b) Acceleration (c) Centre of gravity (d) Zero gravity
21. Vidya's friend was unwell. The doctor asked to get the blood test done. The test report indicated that she had less hemoglobin and is suffering from Anemia. What is the test report called?  
(a) Blood Pathology Report (b) Clinical Pathology Report  
(c) Blood Hemoglobin Report (d) Clinical Hemoglobin Report
22. Anaemia is caused by the deficiency of \_\_\_\_\_  
(a) vitamin (b) protein (c) iron (d) starch
23. To keep on burning, fire needs  
(a) water (b) sand (c) air (d) oil
24. Which is a gemstone?  
(a) diamond (b) shale (c) marble (d) pebble
25. When we place a sweet potato in a glass full of water and keep it in an open space for few days, a new plant grows out of it. It is an example of new plant from  
(a) root (b) stem (c) leaf (d) flower

26. The hinge joint is found in our \_\_\_\_\_.  
(a) finger (b) wrist (c) shoulder (d) neck
27. Which of the following gases is used in fire extinguishers?  
(a) oxygen (b) carbon dioxide (c) nitrogen (d) hydrogen
28. Energy that an object has because of its position is called  
(a) kinetic energy (b) potential energy  
(c) heat energy (d) chemical energy
29. The harmful toxic substances that cause pollution are known as \_\_\_\_\_.  
(a) polluters (b) pollutants (c) pollutite (d) perapitate
30. Due to intense heat, limestone changes into \_\_\_\_\_.  
(a) slate (b) gneiss (c) marble (d) graphite

## ENGLISH

31. I wonder whether I \_\_\_\_\_ see him again  
(a) will (b) shall (c) should (d) would

### Locate the error in the sentence

32. Everyone of the students / has bought / identity card.  
(a) Everyone of the students (b) identity card  
(c) has bought (d) No error
33. Cattles / were grazing / in the meadows / near our farm  
(a) Cattles (b) were grazing  
(c) in the meadows (d) near our farm
34. Which of the following is a noun?  
(a) dog (b) play (c) good (d) or
35. Identify the word that should start with capital letter  
(a) apple (b) state (c) flag (d) delhi
36. Find the correct spelling :  
(a) Caterpillar (b) Catrepillar (c) Caterpilar (d) Catirpillar
37. Find the correct spelling :  
(a) Jeopradous (b) Jeopardoes (c) Jaopardous (d) Jeopardous

**Choose right option for correcting the underlined part:**

38. All criminal attitudes must be nipped at the bud.  
 (a) nipped on the bud (b) nipped for the bud  
 (c) nipped in the bud (d) No correction required
39. Young men and women should get habituated to reading and writing about current affairs.  
 (a) prepared (b) trained (c) used (d) No improvement
40. Breeze : Cyclone then Drizzle : ?  
 (a) Storm (b) Flood (c) Earthquake (d) Downpour

**Choose the meaning of the word given:**

41. Hamlet  
 (a) a group of houses in a village. (b) a group of trees in a village.  
 (c) a group of animals near river. (d) a group of fishes in a river.
42. Torrent  
 (a) A boat tied with other boat in water.  
 (b) A slow moving cascade.  
 (c) A very slow stream of water.  
 (d) A strong and fast-moving stream of water.

**Choose the grammatically correct options.**

43. When I am alone, I hear the footsteps of my friend in my imagination.  
 (a) The footsteps of my friend heard by me, when I am alone.  
 (b) The footsteps of my friend is heard by me when I am alone.  
 (c) The footsteps of my friend are heard by me when I am alone.  
 (d) The footsteps of my friend was heard by me when I am alone.
44. One woman said to me, "You should consult a doctor. Do not delay."  
 (a) One woman said me that I should be consult a doctor. Did not delay  
 (b) One woman told me that I should consulted a doctor. Did not delay.  
 (c) One woman suggested me that I should consult a doctor. Did not delay.  
 (d) One woman requested me that I should been consult a doctor. Do not delay.
45. What you mean by the word "advice"?  
 (a) A person Killed (b) Councel (c) Love (d) Grasp the meaning

**GENERAL KNOWLEDGE**

46. What percentage of world's water is available for human use?  
(a) Less than 1%      (b) Less than 7%      (c) Less than 22%      (d) Less than 27%
47. How do bees pass messages to each other?  
(a) By dancing      (b) By touching      (c) By their scent      (d) By their language
48. Which is the most common form of energy in the universe?  
(a) Light      (b) Electricity      (c) Heat      (d) Nuclear energy
49. How long does it take for the Earth to complete one rotation about its own axis?  
(a) 12 hours      (b) 24 hours      (c) 1 month      (d) 1 year
50. Who is the President of India?  
(a) Narendra Modi      (b) Pranab Mukharjee  
(c) Rahul Gandhi      (d) Arvind Kejriwal

**LOGIC**

51. Three out of the four words given as alternatives are related to the word given in the question in the same way. Find the odd out.  
FRIENDSHIP  
(a) FRIEND      (b) SHIP      (c) FRESH      (d) DRIP
52. Five girls are sitting in a row. Rashi is not adjacent to Sulekha or Abha. Anuradha is not adjacent to Sulekha. Rashi is adjacent to Monika. Monika is at the middle in the row. Then, Anuradha is adjacent to whom out of the following?  
(a) Rashi      (b) Sulekha      (c) Abha      (d) Monika
53. In the numbers from 100 to 1000, how many times digit 1 comes at the ten's place?  
(a) 9      (b) 10      (c) 90      (d) 900
54. 'Dearth' is related to 'Scarcity' in the same way as 'Substitute' is related to  
(a) Replace      (b) Rumour      (c) Destroy      (d) Assume



55. A woman introduces a man as the son of the brother of her mother. How is the man related to the woman?  
(a) Nephew                      (b) Son                      (c) Cousin                      (d) Uncle

## INFORMATION TECHNOLOGY

56. In computing, how many bits are in a byte?  
(a) 4                      (b) 8                      (c) 1052                      (d) 100
57. To what temporary area can you store text and other data, and later paste them to another location?  
(a) The clipboard                      (b) ROM                      (c) CD-ROM                      (d) The hard disk
58. What is the difference between a CD-ROM and a CD-RW?  
(a) Just two different terms used by different manufacturers  
(b) A CD-ROM can be written and a CD-RW cannot  
(c) A CD-RW can be written but a CD-ROM can only read  
(d) A CD-ROM holds more Information than a CD-RW
59. Which of the following pane is not available in Task Pane?  
(a) Getting Started                      (b) Clip Art                      (c) Word Art                      (d) Search Results
60. Which is not the function of the Operating System?  
(a) Memory management                      (b) Disk management  
(c) Application management                      (d) Virus Protection

**END OF DOCUMENT**

**HOT POT – Do it at home!**  
**Hybrid Open Test – Power of Thought**

The Mathematic teacher asked her class to form three member groups to write a paragraph about how students can improve their life using Mathematics they have learnt.

As usual, Hypatia, Vidya and Wisden sat together and discussed about it. Here is what they wrote.

**MATHEMATICS IN OUR LIFE!**

What you mean by  $a + b = b + a$ ? Many students will answer its property name. But we understand that, it is the mathematical representation of a practical statement.  $5 + 3 = 3 + 5$ . We are not interested to give an example to explain it.

Consider the statement – “addition from left to right is equal to addition from right to left”. This statement has 55 letters in it. But if you know how to use the alphabet of Mathematics, 55 letters (characters) can be translated to Mathematics! Mathematics represents 55 letters in just 7 letters!

Writing “addition from left to right is equal to addition from right to left” in our notebook consumes energy to write, space to write, time to write and ink to write. But when you translate the statement to the language of Mathematics, it takes very less space, time and energy!

We believe anything in any language we speak can be translated to the language of Mathematics to make our life easier.

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**ATTN: Parents – Please encourage children to think as Hypatia and Vidya were thinking. Help them to do so. They will redefine the universe by inventing new rules!**

Do you think as they thought? Write your thoughts to [worldgeniuscouncil@gmail.com](mailto:worldgeniuscouncil@gmail.com) Please mention your WGC ID (roll number) in the subject line. Right answers will be appreciated.

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