

TEST CODE
110417



WGSE 2016

CLASS 04 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

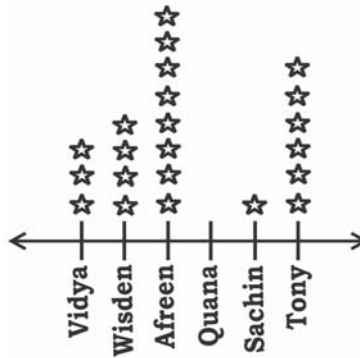
Open from this side →

6. Which of the following could have a face in the shape of a rectangle?
 (a) Cone (b) Prism (c) Sphere (d) Cylinder
7. Given below are the revised Speed Post rates effective 1st January 2016.

Weight	Local (within municipal limits)	Upto 200 Kms.	201 to 1000 Kms.	1001 to 2000 Kms.	Above 2000 Kms.
Upto 50 grams	Rs. 15	Rs. 35	Rs. 35	Rs. 35	Rs. 35
51 grams to 200 grams	Rs. 25	Rs. 35	Rs. 40	Rs. 60	Rs. 70
201 grams to 500 grams	Rs. 30	Rs. 50	Rs. 60	Rs. 80	Rs. 90
Additional 500 grams or part thereof	Rs. 10	Rs. 15	Rs. 30	Rs. 40	Rs. 50

Quana would like to send a birthday gift to her grandpa in Delhi, from Mumbai. If the distance between Mumbai and Delhi is 1400 km and if the gift weighs 700 grams, how much she need to pay to send it by speedpost?

- (a) Rs. 80 (b) Rs. 120 (c) Rs. 160 (d) Rs. 215
8. Points accumulated by Vidya and her friends in a popular online game are shown below. If each star represents fifty points, who has scored above fifty but less than hundred points?



- (a) Quana (b) Sachin (c) Tony (d) Vidya
9. Which of the following is not a proper fraction?
 (a) $\frac{1}{5}$ (b) $\frac{2}{5}$ (c) $\frac{3}{5}$ (d) $\frac{7}{5}$
10. $\frac{2}{3}, \frac{4}{9}, \frac{5}{7}, \frac{5}{3}$
 (a) $\frac{4}{9}, \frac{2}{3}, \frac{5}{7}, \frac{5}{3}$ (b) $\frac{2}{3}, \frac{4}{9}, \frac{5}{3}, \frac{5}{7}$ (c) $\frac{2}{3}, \frac{5}{3}, \frac{4}{9}, \frac{5}{7}$ (d) $\frac{2}{3}, \frac{4}{9}, \frac{5}{7}, \frac{5}{3}$

11. Workers can build a house in 14 days. How many days will 21 workers take to build a similar house?
(a) 11 days (b) 15 days (c) 17 days (d) 22 days
12. Area of a triangle is 90 cm^2 . Find the height of the triangle, if the base of the triangle is 5cm.
(a) 9 cm (b) 12 cm (c) 36 cm (d) 24 cm
13. ABC is a triangle. If $\angle ABC = 64^\circ$ and $\angle BCA = 78^\circ$ $\angle BAC$ is a:
(a) Acute angle (b) Obtuse angle (c) Right angle (d) All of these
14. From a place A, a car leaves for place B, distance between place A and place B is 750 km, if the speed of the car 60 km/hr then what fraction of the total distance will it cover in 15 minutes?
(a) $\frac{1}{25}$ (b) $\frac{1}{50}$ (c) $\frac{1}{75}$ (d) $\frac{1}{100}$
15. Choose the lowest prime number
(a) 2 (b) 4 (c) 6 (d) 1

SCIENCE

16. Which unit is used to measure how warm or cool the air is?
(a) Grams (b) Kilometers
(c) Degrees Celsius (d) Cubic centimeters
17. Fuel is consumed to give energy to function properly. Petrol is a type of fuel used in vehicles to make them run. Which of these is a similar fuel?
(a) water utilized for bath (b) food eaten by a person
(b) air pumped in cycle tyres (d) steam given out by pressure cooker
18. Which of the following liquid contains more carbon dioxide?
(a) Orange juice (b) Cola (c) Curd (d) Water
19. Which of these are protein rich foods?
(a) Bread (b) Fruits and vegetables
(c) Milk and fish (d) Rice
20. Which plant stores water?
(a) Celery (b) Broccoli (c) Oats (d) Cactus

21. Vidya would like to start bee keeping in her garden. What is the best time to start bee keeping?
- (a) January to March
(b) October to December
(c) When nectar is available abundantly
(d) When the beehive is ready to extract honey
22. What is the minimum age of marriage for girls?
- (a) 15 years (b) 18 years (c) 21 years (d) 25 years
23. A person who works on wood is called a carpenter. What a person who works on iron is called?
- (a) Goldsmith (b) Blacksmith (c) Mason (d) Turner
24. Name a bird that lay eggs in a crow's nest?
- (a) Crow (b) Pigeon (c) Bat (d) Koel
25. Nerves which carry the messages from the sense organs to the spinal cord or brain are
- (a) Motor nerves (b) Sensory nerves
(c) Both type of nerves carry messages to the brain (d) All of the above
26. Solar cooker uses _____ energy to cook food.
- (a) Wind (b) Water (c) Atomic (d) Solar
27. Use of fossil fuel should be reduced as the burning of it causes _____.
(a) Water pollution (b) Air pollution (c) Soil pollution (d) Noise pollution
28. Pumice is an example of which one of the following kind of rocks?
- (a) Sedimentary rocks (b) Metamorphic rocks
(c) Igneous rocks (c) Both (A) and (B)
29. When we go to moon our weight gets one-sixth as compared to the earth. Which one of the following forces is responsible for this?
- (a) Frictional force (b) Electrostatic force
(c) Magnetic force (d) Gravitational force
30. Which one of the following is a layer of atmosphere?
- (a) Thermosphere (b) Stratosphere
(c) Troposphere (d) Mesosphere

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) has bought
 (c) identity card (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) Council
 - (c) Love
 - (d) Grasp the meaning

GENERAL KNOWLEDGE

46. RAM stands for
- (a) Rapid Access Memory
 - (b) Random Access Memory
 - (c) Rapid Action Memory
 - (d) Random Action Memory
47. What is the most common form of energy?
- (a) Light
 - (b) Heat
 - (c) Sound
 - (d) Electricity
48. 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
49. Who is the President of India?
- (a) Narendra Modi
 - (b) Pranab Mukharjee
 - (c) Rahul Gandhi
 - (d) Arvind Kejriwal
50. How many Indian rupees you need to pay to get a U S Dollar?
- (a) Rs.35
 - (b) Rs.48
 - (c) Rs.54
 - (d) Rs.68

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.

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 Please mention your WGC ID (roll number) in the subject line. Right answers will be appreciated.

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