



To,
The Principal/Teacher in charge of Student Activities,

Sub: Invitation to participate in the Discovery School Super League- 2018

Discovery Communications India ("Discovery") is pleased to extend an invitation to your school to participate in 'Discovery School Super League- 2018– Powered by BYJU'S' ("DSSL") - India's BIGGEST National Level Inter School Quiz Contest being telecasted on Discovery network channels. DSSL is a critical thinking and aptitude-based competition that provides a unique platform for students to compete and win laurels for themselves and their schools.

Details for the same are as follows:

- Students from grade 4th to 9th are eligible for DSSL, which would be held in three stages. All students from Grade 4-9 should participate, as the event aims to offer an equal chance for every student to get selected for subsequent stages.
- Students from Grade 4th to 9th are divided into two categories:
 1. Grade 4th to 6th: Category-1
 2. Grade 7th to 9th: Category-2
- The contest shall be conducted in three stages –

Stage 1	30 min MCQ based written test which will be conducted in your school	Two toppers (one in each category) qualify for stage 2
Stage 2	45 min MCQ based test conducted at a common location in your city	Two toppers at state level (one in each category) qualify for Stage 3
Stage 3	30 teams (One each from 29 states and Delhi NCR) will compete in a 6-episode Discovery TV Show to be shot in Mumbai	Top Three winning teams and their respective School Principal or one teacher each, win a NASA trip and exciting cash prizes for winners

- There will be no Registration Fees or Any other charges for this contest.
- Stage 3 related travel and accommodation will be arranged and borne by the organizer

How to Participate:

- The registration form and the Guidelines of DSSL are attached as part of the Welcome Kit herewith. Please hand over the completed registration form duly signed and stamped to the organizer or its designated partners.

Rewards and Recognitions

- Every participating student gets a 3 Month BYJU'S Course Subscription worth Rs. 8000 for FREE
- At a school level, each grade topper will receive a DSSL School bag in addition to goodies.
- The National level winners (Winner, first runner up and Second Runner up) along with their respective School Principal/ one Teacher each from their School would win a paid Trip to NASA (Texas, USA) and exciting cash prizes for winners.

All prizes/awards, travel, logistics and accommodation as per the Guidelines of DSSL, 2018 will be borne by the organizer. This activity will not only help understand the learning footprints of the students, it also helps them to gear up for the competitive challenges ahead of them. Since all the prominent schools are participating in this largest school event of this kind in India, we look forward to your wholehearted participation at the earliest by filling the attached registration form.

WARM REGARDS & LOOKING FORWARD,

**Organizer
DISCOVERY SCHOOL SUPER LEAGUE**

Question Paper (B)

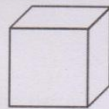
Class (7,8 & 9)

No. of Questions: 20

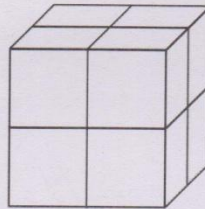
Time: 40 Minutes

Marks for each correct Answer: 4

1. What will be the total surface area of this larger cube?

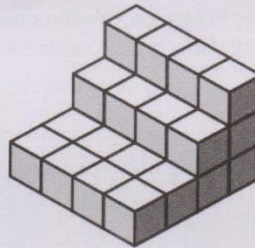


The cube shown above has a volume of 8 cm^3 . Eight such cubes were joined to form a larger cube shown here.



- a. 96 cm^2 b. 64 cm^2 c. 16 cm^2 d. 24 cm^2
2. How many more unit cubes should be added to make this into a $4 \times 4 \times 4$ cube?

- a. 20
b. 28
c. 36
d. 48



3. Joe purchased 20 apples from a supermarket for 180 rupees at a discount of 10 percent. How much will a dozen apples cost him if he does not avail any discount?
- a. 108 b. 120 c. 132 d. 144





4. Find X in



- a. 5 b. 8 c. 15 d. 21

5. Complete the figure given below by choosing the most appropriate option.



- a. 
- b. 
- c. 
- d. 

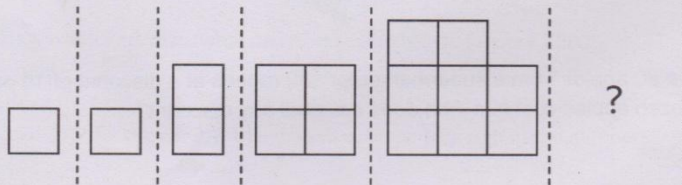
6. If a lemon of radius r is divided into four identical parts, then what would be the total surface area of the four parts? (Given Area of a sphere = $4\pi r^2$)

- a. $2\pi r^2$ b. $4\pi r^2$ c. $6\pi r^2$ d. $8\pi r^2$

7. Emma, who is Joe's daughter, says to Monica, "Your mother Rachel is the younger sister of my father, who is the third child of Sam". How is Sam related to Monica?

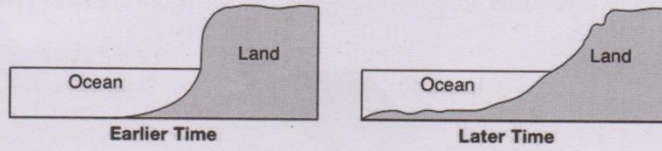
- a. Grandfather c. Father
b. Father-in-law d. Grandfather

8. How many squares will make up the figure in the resulting pattern to replace the question mark below?



- a. 9 b. 12 c. 16 d. 20

9. The changes to the land shown in the diagram were most likely caused by



- a. Erosion and Magnetism
- b. Erosion and Deposition
- c. Gravity and Evaporation
- d. Gravity and Condensation

10. Find the missing number in the series given below –

6, 12, 20, 30, 42, ?

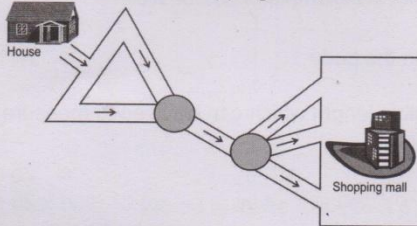
- a. 50
- b. 52
- c. 54
- d. 56

11. Find the missing number in the series given below.

1, 1, 2, 3, 5, 8, ?, 21

- a. 10
- b. 11
- c. 12
- d. 13

12. Pikachu wants to go from this house to the shopping mall, how many routes can he take?



- a. 12
- b. 7
- c. 8
- d. 6

13. Which one will you choose in order to have more pizza?



One 18 inches pizza



Two 12-inches pizza

- a. One 18 inches pizza
- b. Two 12-inches pizza
- c. Both are the same
- d. Cannot say

14. Which of the options when used appropriately would form the figure above it? (The figures in the options can be rotated)



a.



b.



c.



d.



15. Which of the following is not an example of combustion?

- | | |
|----------------------------------|------------------------------------|
| a. Burning of coal | c. Burning of fuel in a car engine |
| b. Digestion of food in the body | d. All of these |

16. What is the greatest possible length which can be used to measure exactly the lengths 8 m, 4m 20 cm and 12 m 20 cm?

- | | |
|----------|----------|
| a. 10 cm | c. 25 cm |
| b. 30 cm | d. 20 cm |

17. Which of the organs in digestive system does not contribute to chemical digestion?

- | | |
|------------|--------------------|
| a. Mouth | c. Esophagus |
| b. Stomach | d. Small Intestine |

18. Which of the following is a renewable source of energy?

- | | |
|-----------------|---------------------|
| a. Solar Energy | c. Wind Energy |
| b. Hydel Energy | d. All of the above |

19. January 1, 2004 was a Thursday, what day of the week lies on January 1 2005.

- | | |
|-------------|------------|
| a. Saturday | c. Sunday |
| b. Monday | d. Tuesday |

20. Two numbers are in the ratio 2: 3. If their L.C.M. is 48. what is sum of the numbers?

- | | |
|-------|-------|
| a. 28 | c. 64 |
| b. 40 | d. 42 |

Question Paper (A)

Class (4,5 & 6)

No. of Questions : 20
Marks for each correct Answer : 4

Time : 40 Minutes

1. Which image is created in one stretch without lifting the pen while making it?



- a. 1 b. 2 c. 3 d. 4

2. How many triangles are there in the following figure?



- a. 3 b. 4 c. 5 d. 6

3. Which analogy matches best to the relation given below?

War : Destruction

- a. Flood: Drought c. Water: Thirst
b. Fire: Burn d. Food: Hunger
4. Out of the given options, pick the odd one out.
a. Cricket c. Cycling
b. Hokey d. Football

5. Amelia's pencil is $\frac{12}{100}$ of a meter long. What is the length, in meters, of Amelia's pencil written as a decimal?

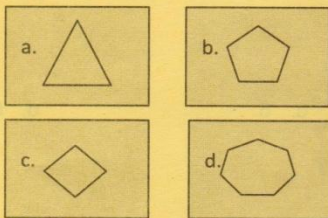
- a. 0.12 c. 0.0012
b. 1.02 d. 1.200

6. Add. $46,911 + 653,092$

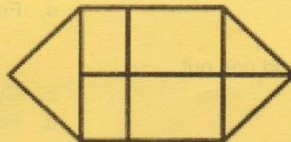
- a. 699,903 c. 913,203
b. 700,003 d. 1,122,202

7. Lily is going to give away all the pieces of candy in a bag. She can give an equal number of pieces of candy to 5, 3, or 2 people. Which number of pieces of candy could be in Lily's bag?
- a. 12 b. 20 c. 30 d. 45
8. Use the equation below to answer the question.
 $14 \times 3 = 42$
 Which statement correctly interprets the expression?
- a. 14 is 3 more than 42. c. 14 is 3 times as many as 42.
 b. 42 is 14 more than 3. d. 42 is 3 times as many as 14.
9. Which of the following would best tell you that something is a living thing?
- a. It feels soft c. It produces an offspring
 b. It is green d. It soaks up water
10. Rahul needs to collect 2.5kg of Tomatoes, 250g of potatoes, 0.6kg of cucumbers and 1250g of onions for a family dinner. What is the total weight of the vegetables he has to bring home?
- a. 4.9 kg c. 4800 g
 b. 5000 g d. 4.6 kg

11. Find the odd one out.

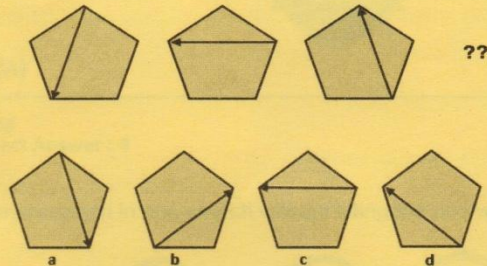


12. How many rectangles are there in the given figure?



- a. 10
 b. 9
 c. 8
 d. 7

13. Choose the most appropriate option that can replace the question mark.



14. $19/6$ is a number between _____.

- a. 2 & 3
- b. 6 & 7
- c. 1 & 2
- d. 3 & 4

15. When you eat sugarcane, which part of it are you actually eating?

- a. Fruit
- b. Root
- c. Stem
- d. Grains

16. Identify the ascending order of the magnitudes of length.

- a. m, km, mm
- b. cm, m, mm
- c. mm, m, km
- d. cm, km, m

17. Which of these substances shows solubility in water?

- a. Sand
- b. Salt
- c. Chalk
- d. Iron pieces

18. How many radii can be drawn in a circle?

- a. 1
- b. 2
- c. 20
- d. Infinite

19. What is the Hindu-Arabic numeral for XXXIX?

- a. 29
- b. 39
- c. 41
- d. 50

20. Find the incorrect statement from the following (the expressions are written in Roman Numerals).

- a. $C - X = XC$
- b. $XI - IX = XX$
- c. $DC - C = D$
- d. $LXI - LIX = II$



Student's Name (Leave a blank between Name & Surname)

OMR grid for student name and answers, with rows of letters A-Z and digits 0-9.

Large empty box for student details.

Mobile Number (Parent)

OMR grid for parent mobile number, with rows of digits 0-9.

Class and Section selection boxes with options A-M and 4-10.

- 1. Read all instructions carefully before filling the OMR Sheet.
2. Use BLACK/BLUE ball point pen for filling circles.
3. Do not make any stray marks on the OMR Sheet. Do not fold the OMR Sheet.
4. Rough work must not be done on OMR Sheet. Use question paper for rough work.
5. Please be careful while marking, you cannot mark more than one option. For any question, if you darken more, than one circle, your answer will be treated as wrong.



School's Name

Branch

Father's Name

Answers

- 01 A B C D 06 A B C D 11 A B C D 16 A B C D 21 A B C D 26 A B C D
02 A B C D 07 A B C D 12 A B C D 17 A B C D 22 A B C D 27 A B C D
03 A B C D 08 A B C D 13 A B C D 18 A B C D 23 A B C D 28 A B C D
04 A B C D 09 A B C D 14 A B C D 19 A B C D 24 A B C D 29 A B C D
05 A B C D 10 A B C D 15 A B C D 20 A B C D 25 A B C D 30 A B C D

Please Tear here

STUDENT'S COPY

Student Name : Class :

Congratulations for taking part in DSSL! You now have full access to BYJU'S Courses for 90 Days (worth INR 8000 for FREE!)

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Access Code :

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3. Enter the Access Code (mentioned above).



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