

MENTAL ABILITY

1. A shopkeeper puts an even number of chocolates in a jar. How many chocolates could he have put in the jar?

- (1) 999
- (2)*900
- (3) 901
- (4) 905

2. Rita had ₹ 150. She wanted to buy a doll that costs ₹ 230. How much more money does she need to buy the doll?

- (1)*80
- (2) 90
- (3) 100
- (4) 120

3. Mrs. Geetha writes the following number sentence on the board:

$$600 \times \square = 0$$

Which number would go into the box?

- (1)*0
- (2) 1
- (3) 2
- (4) 3

4. Which number comes next in the series?

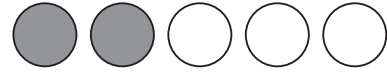
4231, 4331, 4431, ?

- (1) 4432
- (2) 4430
- (3)*4531
- (4) 5431

5. Which of these number sentences is correct?

- (1) $456 > 465$
- (2)* $476 > 467$
- (3) $403 > 430$
- (4) $457 > 475$

6. The fraction of unshaded part is _____.



- (1) $\frac{2}{5}$
- (2) $\frac{1}{5}$
- (3) $\frac{1}{5}$
- (4)* $\frac{3}{5}$

7. In one trip a van can take 7 people. In how many trips can it take 35 people?

- (1)*5 trips
- (2) 6 trips
- (3) 4 trips
- (4) 10 trips

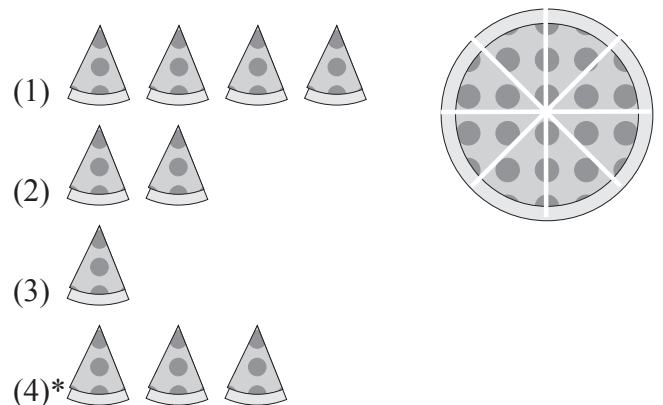
8. $2 + 6 + 16 = 10 + \square$

- (1) 9
- (2) 21
- (3)*14
- (4) 11

9. Which means five thousand seven hundred ninety-two?

- (1) 7,592
- (2)*5,792
- (3) 7,972
- (4) 7,529

10. Rekha ate $\frac{3}{8}$ of the cake. How much of the cake did she eat?







SPACE SCIENCE





11. First satellite of NASA was

- (1) Sputnik 2
- (2) Explorer 1
- (3) Sputnik 1
- (4)*Terra 1

12. The satellite of the Earth is

- (1)  Earth
- (2)*  Moon
- (3)  Star
- (4)  Sun

13. A rocky object that orbits the sun is

- (1)  Comet
- (2)  Meteor
- (3)  Star
- (4)*  Asteroid





14. What comes between the inner and outer planets?

- (1)*An Asteroid Belt
- (2) The Milky Way
- (3) The Sun
- (4) Titan

15. How many constellations are there?

- (1) 22
- (2) 44
- (3) 66
- (4)*88

16. What is the 5th planet from the sun?

- (1)  Earth
- (2)  Mars
- (3)*  Jupiter
- (4)  Mercury

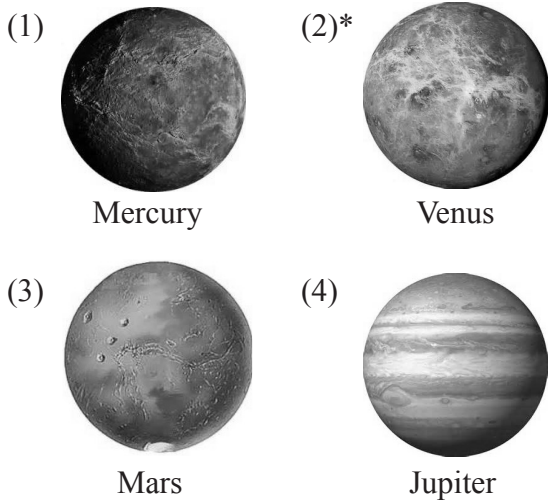
17. The planets farthest from the sun are called the _____.

- (1) inner planets
- (2) outside planets
- (3) satellite planets
- (4)*outer planets

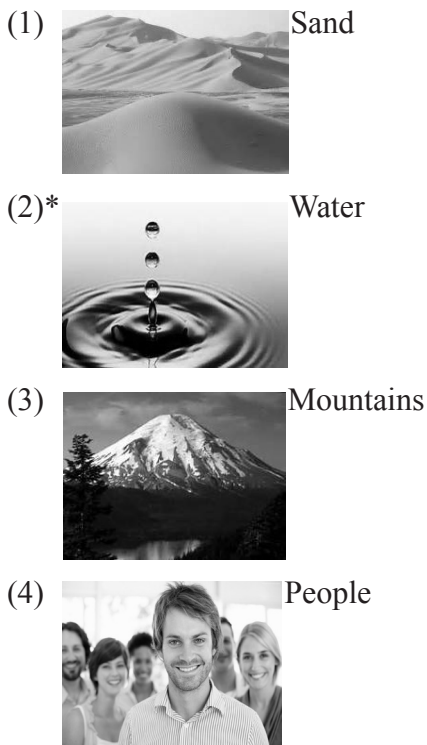
18. The outer planets are also called _____

- (1)*gas giants
- (2) solid cores
- (3) cold planets
- (4) warm planets

19. I am sometimes called Earth's twin planet. We are very close to the same size.



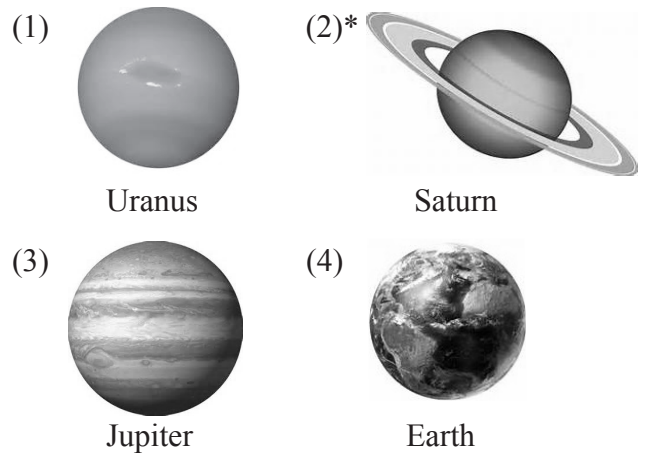
20. Which of the following covers most of the Earth's surface?



21. In the evening, she decides to visit the Deer Park. As she drives towards the Deer Park on Guru Nagar road, where will she see the Sun setting?

- (1) To her left
- (2) To her right
- (3)* Towards her front
- (4) Towards her back

22. Which of the following planets has the most number of natural satellites?



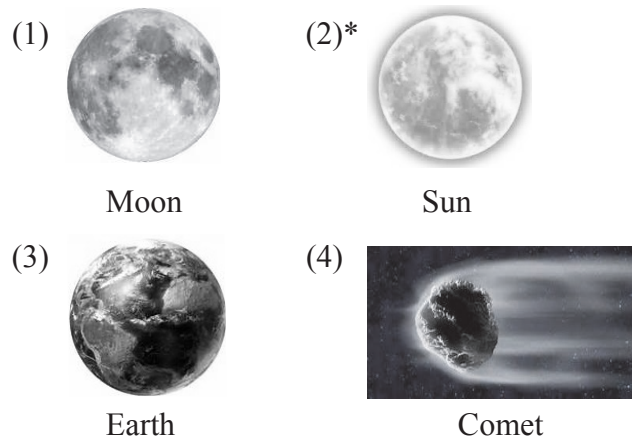
23. The following information shows four planets in the Solar System:

Mars, Uranus, Venus, Saturn

Which of the following is the correct sequence of planets from the Sun?

- (1)* Venus, Mars, Saturn, Uranus
- (2) Mars, Venus, Uranus, Saturn
- (3) Saturn, Venus, Mars, Uranus
- (4) Venus, Saturn, Mars, Uranus

24. The planets in Solar System do not give off light of their own. They reflect from the _____.

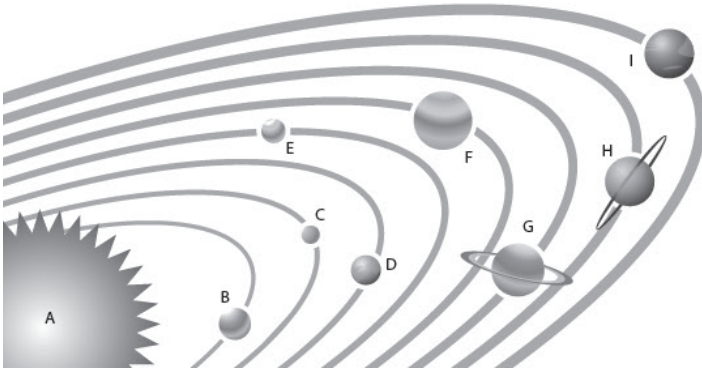


25. The Moon is a/an _____.

- (1) star
- (2) planet
- (3) asteroid
- (4)* natural satellite

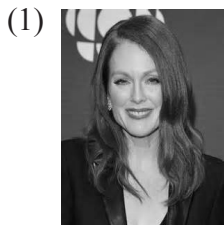
INTERACTIVE SECTION

26. The diagram shows our _____.



- (1) galaxy
- (2) universe
- (3)*solar system
- (4) all of these

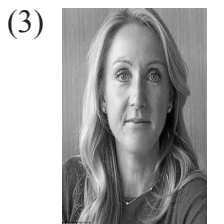
27. What is the name of the first woman space tourist?



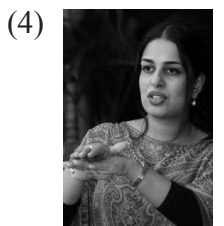
Jullian Moore



Anousheh Ansari

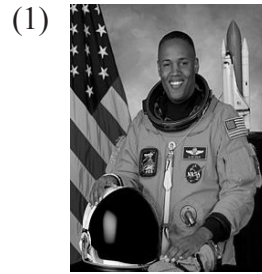


Paula Radcliffe



Namira Salim

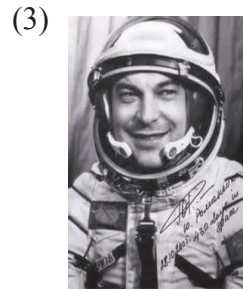
28. The name of the world's first black spaceman is



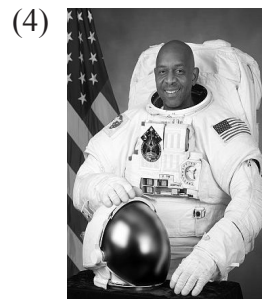
B. Alvin Drew



Arnaldo Tamayo Mendez



Yury Romanenko

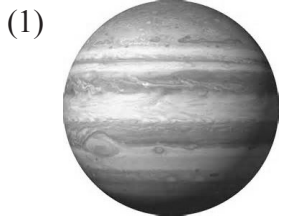


Robert Satcher

29. Which of the following is the nearest galaxy to the Milky Way?

- (1)*Andromeda
- (2) Cartwheel galaxy
- (3) Pinwheel galaxy
- (4) Whirlpool galaxy

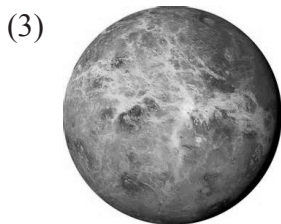
30. Which planet has the solar system's highest mountain Olympus Mons?



Jupiter



Uranus

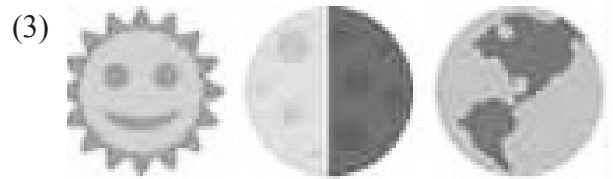
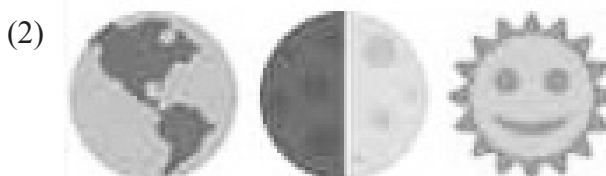


Venus



Mars

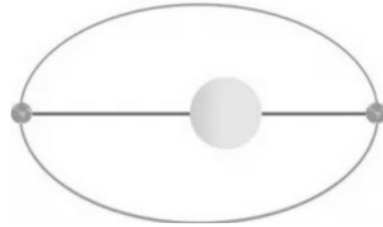
31. Which of these is a lunar eclipse?



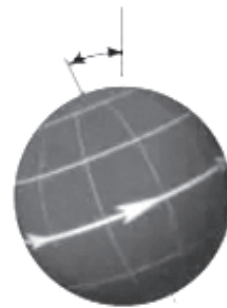
(4) All of these

32. What causes the seasons?

(1) The distance of the Earth from the Sun



(2)*The tilt of Earth's axis



(3) Distance of Earth and Moon



(4) Both (2) and (3)

33. How many planets in our solar system are moonless?

(1) 1

(2)*2

(3) 3

(4) 4

34. How many moons does Mercury have?

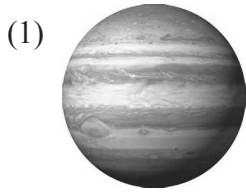
(1) 1

(2) 2

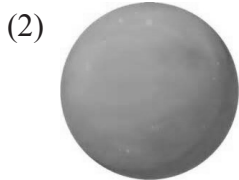
(3)*0

(4) 6

35. Inner planet is



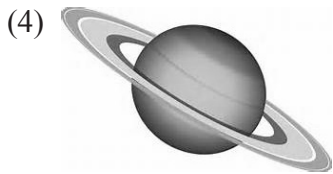
Jupiter



Neptune



Earth



Saturn

36. What is the name of NASA's most famous space telescope?

- (1) Spitzer Space Telescope
- (2)*Hubble Space Telescope
- (3) Chandra X-ray Telescope
- (4) Planck Telescope

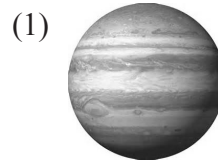
37. An odorless, colorless, tasteless gas that we breathe is

- (1) Nitrogen
- (2)* Oxygen
- (3) Helium
- (4) Hydrogen

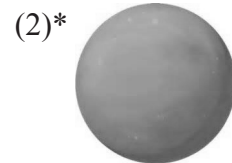
38. The moon revolves around the earth in about

- (1) three months
- (2) two months
- (3)*one month
- (4) five months

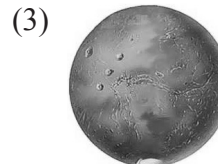
39. I'm the 8th planet from the sun and I have 8 moons.



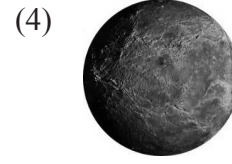
Jupiter



Neptune

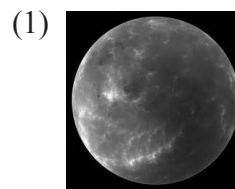


Mars



Mercury

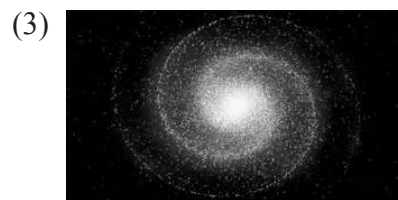
40. A group of stars humans observe in a pattern and give a name:



Planet



Constellation



Galaxy



Universe

* denotes answer.



END OF THE EXAM