

MENTAL ABILITY

1. The place value of 3 in 45327 is

- (1)*300
- (2) 30
- (3) 3000
- (4) 327

2. 1 litre is

- (1) 100 decilitres
- (2) 10 centilitres
- (3)*1000 millilitres
- (4) 1000 decilitres

3. The time shown in the clock is

- (1) 10 min. past 5
- (2)*15 min. past 6
- (3) 30 min. past 6
- (4) 10 min. past 6



4. What would be the next 3 numbers in this pattern?

8, 12, 16, 20, 24, 28

- (1) 38, 42, 46
- (2)*32, 36, 40
- (3) 30, 34, 38
- (4) 30, 32, 36

5. On the first day of their vacation, the Jindal family drove 728 kilometre. On the second day, they drove 702 kilometre. How many kilometre did they drive in these two days?

- (1) 1370
- (2) 1345
- (3) 1448
- (4)*1430

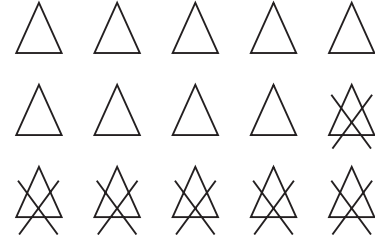
6. There were 4986 trees in a forest. In another forest there were 5367 trees. How many more trees were there in the second forest?

- (1) 581
- (2)*381

(3) 681

(4) 215

7. The fraction which represents the objects cancelled in the collection is



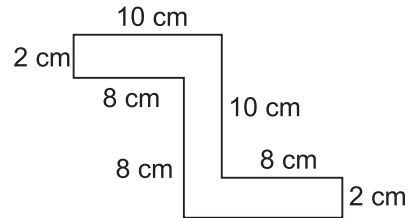
(1) $\frac{5}{12}$

(2)* $\frac{6}{15}$

(3) $\frac{7}{12}$

(4) $\frac{3}{10}$

8. Perimeter of the figure given here is



(1) 60 cm

(2) 50 cm

(3)*58 cm

(4) 55 cm

9. $3\frac{1}{4}$ as a decimal equals

(1)*3.25

(2) 3.50

(3) 3.15

(4) 3.30

10. A triangle with all its sides equal in length is called

(1) Scalene

(2) Isosceles

(3)*Equilateral

(4) All of these

SPACE SCIENCE

11. Who was the first man to “Walk” in space?

(1)*



Alexei Leonov

(2)



Major White

(3)



Alan Shepard

(4) All of these

12. What is the name of dog that went into space first?

(1) Rossi

(2)*Laika

(3) Tommi

(4) Pinky

13. Which of the following order is given to the planets of solar system on the basis of their sizes?

(1)*Jupiter, Saturn, Earth, Mercury

(2) Saturn, Jupiter, Mercury, Earth

(3) Mercury, Earth, Jupiter, Saturn

(4) Earth, Mercury, Saturn, Jupiter

14. Indian Space Research Organisation’s rocket launching pad is located at

(1) Srikakulam

(2) Srisailam

(3)*Sriharikota

(4) Sulurpet

15. Which of these best describes the atmosphere surrounding Venus?

(1) Cold and Snowy

(2) Cold and Wet

(3) Bright and Sunny

(4)*Hot and Poisonous

16. Source of light and heat on earth is

(1)*



Sun

(2)



Moon

(3)



Satellite

(4)



Star

17. Which is the only planet that rotates clockwise?

(1)



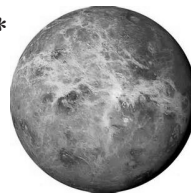
Mars

(2)



Jupiter

(3)*



Venus

(4)



Pluto

18. Which of the following acts as a layer that protects the Earth from harmful rays of the Sun?

(1) Clouds

(2) Gravity force





(3) Vacuum

(4)* Atmosphere

19. From the Earth, the Moon looks bigger than the Sun. Which of the following is the reason?

- (1) The Sun is very small
- (2) The Sun is nearer to the Earth
- (3)*The Moon is nearer to the Earth
- (4) The sunlight is brighter than the moonlight

20. The orbits of the planets are

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

21. How many moons Saturn has?

- (1)*At least 30
- (2) At least 40
- (3) At least 50
- (4) At least 60

22. Which two early astronomers were supporters of the geocentric, or Earth-centered model of the solar system?

- (1) Aristotle and Galileo
- (2) Galileo and Copernicus
- (3) Aristotle and Ptolemy
- (4)*Copernicus and Ptolemy

23. When the moon is between the Sun and the Earth, it is completely in the shadows. What is this lunar phase called?



New Moon



Full Moon



Waxing Gibbous



Waning Crescent

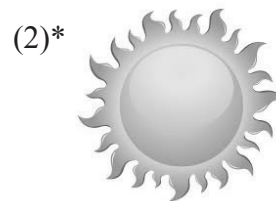
24. When we are seeing more and more of the moon, it is

- (1)*Waxing
- (2) Waning
- (3) Full moon
- (4) New Moon

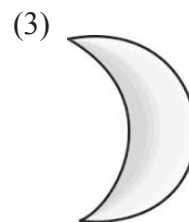
25. Which celestial body has the most gravitational pull?



Earth



Sun



Moon

- (4) All of these

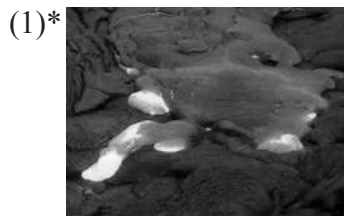
INTERACTIVE SECTION

26. What do we call molten rock when it is outside the earth?



- (1) Volcano
- (2) Magma
- (3)*Lava
- (4) Crust

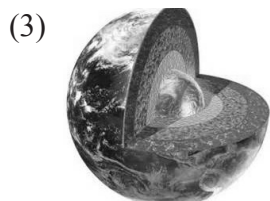
27. What do we call molten rock when it is inside the earth?



Magma



Lava



Crust



Volcano

28. Which of the following is not a gas planet?

(1)



Jupiter

(2)



Uranus

(3)*



Venus

(4)



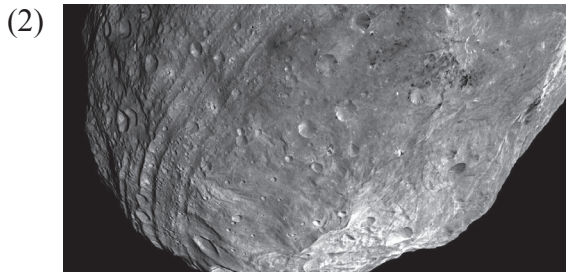
Neptune

29. What is the largest object in the asteroid belt?

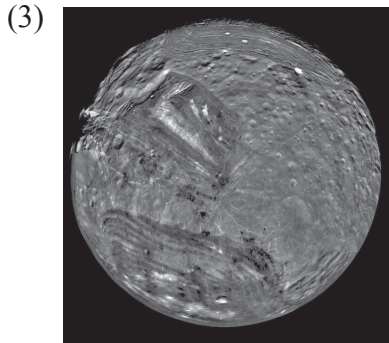
(1)*



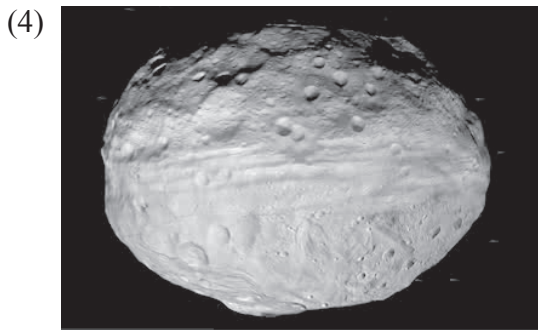
Ceres



Vesta



Pallas

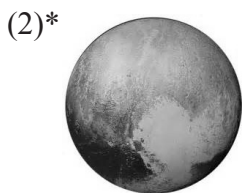


Hygiea

30. Which was once a planet, but is now renamed a dwarf planet?



Sun



Pluto



Earth



Moon

31. What two forces keep Earth in orbit with the sun?

- (1) Gravity and Magnetic
- (2) Magnetic and Inertia
- (3)* Inertia and Gravity
- (4) Heat and Pressure

32. Which of the following has a larger gravitational pull?



Moon



Jupiter

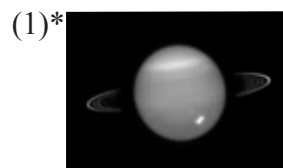


Earth

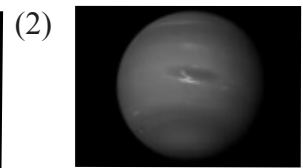


Mars

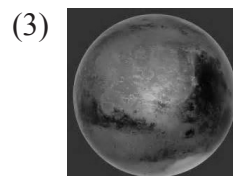
33. Which planet rotates on its side?



Uranus



Neptune

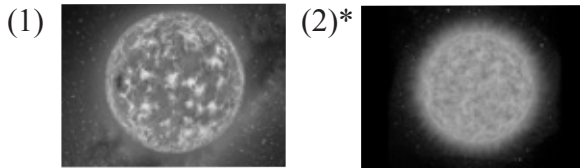


Mars



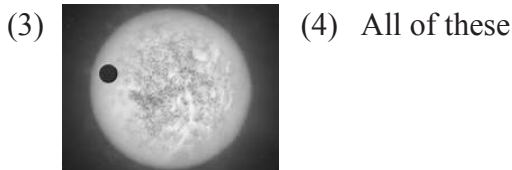
Earth

34. Which group of stars is hotter?



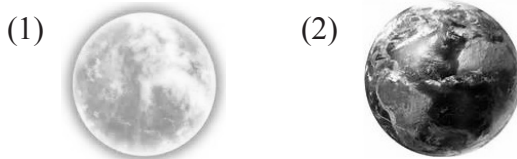
Red Giants

Blue Stars



Yellow Star

35. The tide is the rise and fall of the water in the ocean caused by the gravity forces from the



Sun

Earth



Moon

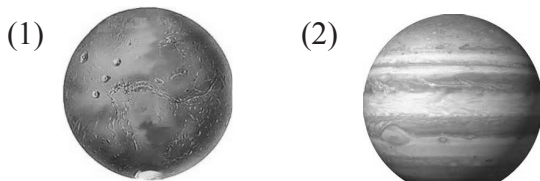
36. Solar means _____.

- (1) Moon (2)* Sun
(3) Sky (4) Universe

37. Which of the following planets have no moons?

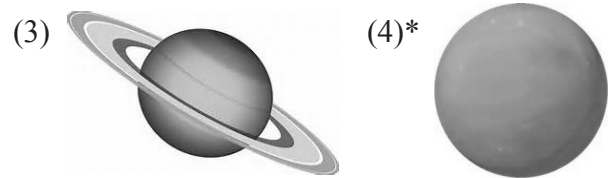
- (1) Pluto and Mercury
(2) Mars and Venus
(3)* Mercury and Venus
(4) Pluto and Mars

38. Name the planet with the longest year.



Mars

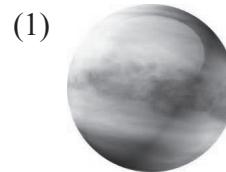
Jupiter



Saturn

Neptune

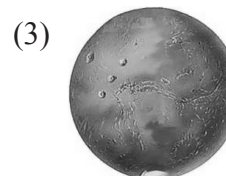
39. Which planets in our solar system have volcanoes on their surfaces?



Venus



Earth



Mars

(4)* All of these

40. How long is Mercury's day?

- (1) 186 Earth days
(2)* 176 Earth days
(3) 166 Earth days
(4) 156 Earth days

* denotes answer.



END OF THE EXAM