



ASTRONOMY

School Level Examination

GRADE

4

DO NOT OPEN THIS BOOKLET UNTIL INSTRUCTED TO DO SO

- * All questions are compulsory.
- * Read the instructions on the **ANSWER SHEET** and fill in your **NAME, CLASS and OTHER INFORMATION**.

To mark your choice of answer by darkening the circles in the Answer Sheet, use an **HB Pencil** only.

- * You **MUST** record your answers on the **ANSWER SHEET**.
- * There are 30 **MULTIPLE CHOICE QUESTIONS**. Use the information provided to choose the **BEST** answer among the four possible options.

On your **ANSWER SHEET** fill in the oval that matches your answer.

- * Marks are **NOT** deducted for incorrect answers.
- * Return the **Answer Sheet** to the invigilator at the end of the examination.
- * Write your Roll No. on the Question Paper too and take it home for future reference.
- * You are **NOT** allowed to use a calculator.

You may use a ruler and spare paper for rough work.





Section - A

(This section contains 5 multiple choice questions. Each question has four choices (A), (B), (C) and (D), out of which only ONE is correct.)

1. Five bells in a temple toll at interval of 12 seconds, 15 seconds, 20 seconds, 25 seconds, and 45 seconds respectively. If all of them toll at 5 a.m., what time they will next toll together?

(A) 5:15 a.m. (B) 5:20 a.m.
(C) 5:10 a.m. (D) 5:12 a.m.

2. Choose the odd one out.

(A)  (B) 
(C)  (D) 

3. Choose the correct option.

1 kg = 1000 g :: 1 m = _____ cm

(A) 1000 (B) 100
(C) 10 (D) 10000

4. Complete the following.

AC : XZ :: FH : _____

(A) LO (B) KP
(C) SU (D) BN

5. Which number should come next?

18, 9, 18, 11, 18, _____.

(A) 19 (B) 21
(C) 13 (D) 18

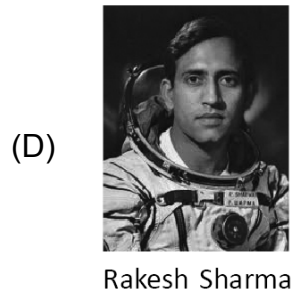
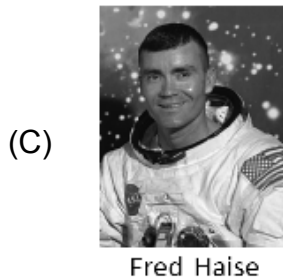
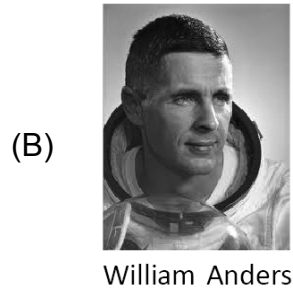
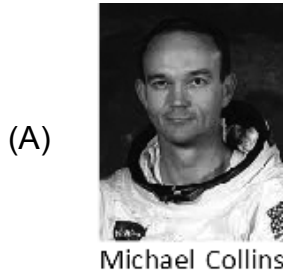
Section - B

(This section contains 25 multiple choice questions. Each question has four choices (A), (B), (C) and (D), out of which only ONE is correct.)

6. What is the name of the space that consists of stars, earth, moon and solar system?

- (A) Galaxy
- (B) Constellation
- (C) Solar System
- (D) Universe

7. Along with Neil Armstrong and Buzz Aldrin, who was the third member of Apollo-11 crew?



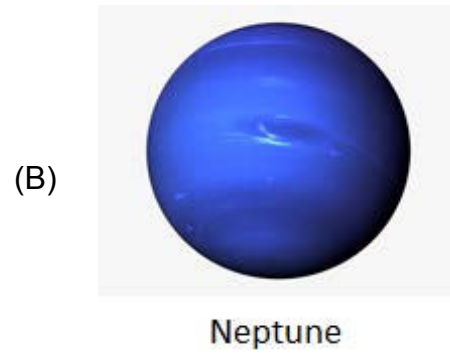
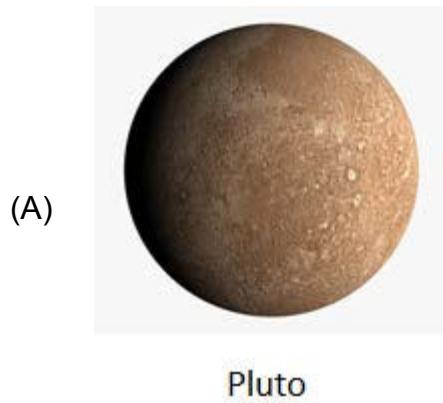
8. In earlier times, astronomers used to track the movement of stars and other heavenly bodies through some patterns of the sky. These patterns are known as _____.

- (A) Galaxies
- (B) Constellations
- (C) Planets
- (D) Comets

9. Which of the following statements is CORRECT about one astronomical unit?

- (A) It is the average distance between the Moon and the Earth.
- (B) It is the average distance between the Sun and the Earth.
- (C) Both of these
- (D) None of these

10. _____ has a moon almost as big as itself.



11. Identify the CORRECT statement.

- (A) Venus has no natural satellite.
- (B) Mercury has the highest number of satellites.
- (C) Neptune is the hottest planet.
- (D) Luna is the largest satellite in the solar system.

12. In 1998, a satellite was launched to study the atmosphere of Sun. Name it.



(A) INSAT

(B) TRACE

(C) SOHO

(D) Solar Max

13. The percentage of the total mass of Solar System found in the Sun is _____.

(A) 52

(B) 99.86

(C) 70.4

(D) 85

14. _____ is the first artificial satellite of the Moon.



(A) Luna 10

(B) Pioneer 1

(C) Explorer 1

(D) Westar 1

15. Who was the first animal that entered space in Sputnik 2 mission launched in 1957?

(A) Cat

(B) Dog

(C) Mouse

(D) Raccoon

16. Which of the following statements is incorrect about the stars?



(A) There are plenty number of stars in our galaxy.

(B) Sun is a star present at the center of our solar system.

(C) Stars have their own light.

(D) All stars are of same colour.

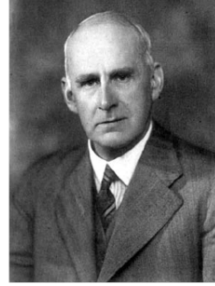
17. _____ is the name of the Earth's moon.

- (A) Orion
- (B) Ganyemedede
- (C) Titan
- (D) Luna

18. Name the astronomer who proved that the stars are made up of hydrogen.



Harlow Shapley



Arthur Eddington



Cecilia Payne-Gaposchkin



Johannes Rydberg

19. Sun appears to be the biggest star among all because

- (A) It is the heaviest star.
- (B) It is the source of ultimate energy.
- (C) It is closer to the earth than any stars.
- (D) None of these

20. What is the distance of the Moon from Earth?

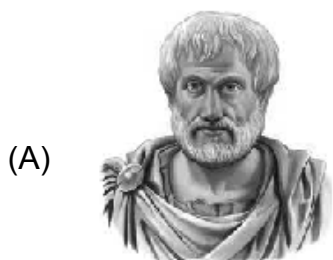


- (A) 4,56,400 km
- (B) 3,84,400 km
- (C) 5,84,500 km
- (D) 3,45,400 km

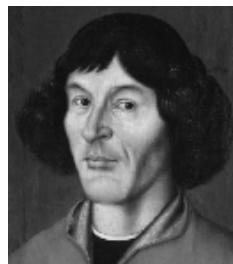
21. _____ is considered as the biggest event in the Universe.

- (A) Big Crunch (B) Big Rip
(C) Both (A) and (B) (D) Big Bang

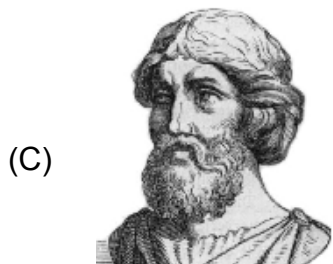
22. Who was the first person to suggest that earth rotated on its own axis?



Aristotle



Copernicus



Aristarchus



Ptolemy

23. _____ is responsible for the generation of energy in the stars.

- (A) Chemical reaction (B) Nuclear reaction
(C) Reversible reaction (D) Precipitation reaction

24. _____ and _____ are known as Gas Giants.

- (A) Saturn and Mars (B) Saturn and Jupiter
(C) Venus and Neptune (D) Venus and Jupiter

25. Choose the most appropriate statement about the Galaxy.

- (A) It includes all the comets and clouds.
(B) It includes a huge collection of gas, dust and billions of stars.
(C) It includes all the planets, satellites and asteroids.
(D) None of these

26. Choose the correct statement that describes the availability of life on the Earth.

1. The abundance of water 2. The right amount of gases
3. Its atmosphere 4. Its position from the Sun
(A) 1. only (B) 1., 2., and 3.

- (C) 1., 3., and 4. (D) All of the above
27. Neil Armstrong was the first person to walk on the moon. He went with his crew on the moon in _____.
- (A) 1945 (B) 1966
(C) 1979 (D) 1969
28. Which of the following is the highest layer of Earth's atmosphere?
- (A) Mesosphere (B) Troposphere
(C) Exosphere (D) Stratosphere
29. Read the below statements and fill in the blank.
- Satellites are used to study the Earth and space. _____ gives us information about the atmosphere surrounding the Earth.
- (A) Remote sensing satellites (B) Communication satellites
(C) Weather satellites (D) Navigation satellites
30. Which of the following statements is correct about Mars?
- (A) It looks red because of all the fire on it.
(B) It looks red because of all the strawberries on it.
(C) It looks red because of all the volcanoes exploding on it.
(D) It looks red because of the rusty iron dioxide dirt.

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