



ASTRONOMY

School Level Examination

GRADE

8

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 40 **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.

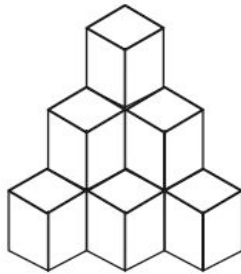
- * Marks are **NOT** deducted for incorrect answers.
- * Return the **Answer Sheet** to the invigilator at the end of the examination.
- * Write your Roll No. on the Question Paper too and take it home for future reference.
- * You are **NOT** allowed to use a calculator.

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

Section - A

(This section contains 8 multiple choice questions. Each question has four choices (A), (B), (C) and (D), out of which only ONE is correct.)

1. Choose the correct option. c ____ bba ____ cab ____ ac ____ bb
(A) acbc (B) bacc
(C) abcb (D) bcac
2. Select the ODD one out.
(A) Iron (B) Aluminum
(C) Brass (D) Nickel
3. Select the related word from the given alternatives.
Clock : Time :: Thermometer : ?
(A) Mercury (B) Radiation
(C) Doctor (D) Temperature
4. How many cubes are present in the given figure?



- (A) 13 (B) 12
(C) 10 (D) 6
5. In a certain code language, 'Tom Kun Sun' means 'Dogs are barking'; 'Kun Jo Mop' means 'Dogs and horses' and 'Mut Tom Ko' means 'Monkeys are mad'. Which word in that language means 'barking'?
- (A) Tom (B) Sun
(C) Kun (D) Jo
6. Arrange the following words as arranged in the English Dictionary.
- (i) Adhesive
(ii) Accent
(iii) Ascent

(iv) Assertive

(A) (ii), (i), (iii), (iv)

(B) (i), (ii), (iii), (iv)

(C) (iv), (iii), (i), (ii)

(D) (iii), (iv), (ii), (ii)

7. What will be the value of HALL, if CALL = 30 and FALL = 60?

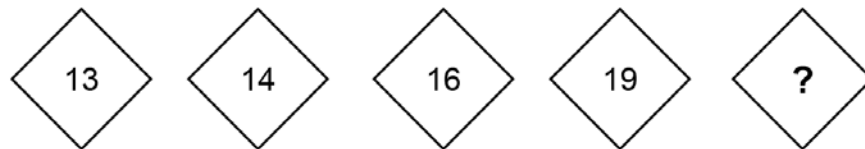
(A) 26

(B) 80

(C) 110

(D) 60

8. Find the value of ?



(A) 23

(B) 21

(C) 20

(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.)

9. To operate and control satellites in geostationary orbit, two Master Control Facility exists in India. One is in Hassan, Karnataka and other at which place in Madhya Pradesh?

(A) Hoshangabad

(B) Bhopal

(C) Rajgarh

(D) Ratlam

10. Chamber, nozzle and igniter are three basic parts of _____.

(A) Launch Vehicles

(B) Blaster

(C) Booster

(D) Rocket Engines

11. USA was the first nation to send their satellite in space that orbited the Earth for 12 long years. It was meant to collect the information of space. What was its name?

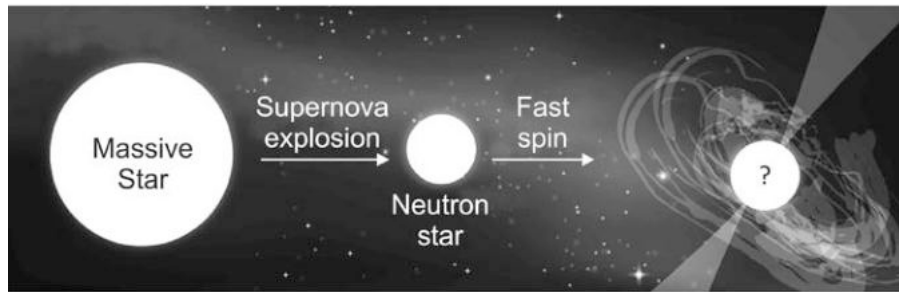
(A) Explorer 2

(B) Explorer 3

(C) Explorer 1

(D) Apollo 3

12. _____ is formed when a fast moving neutron star after supernova explosion emits a beam of radiation along its magnetic field lines.



- (A) Asterism (B) Black hole
(C) Pulsar (D) Quasar
13. _____ has the densest atmosphere.
(A) Earth (B) Jupiter
(C) Uranus (D) Venus
14. The similarity between Large Magellanic Cloud and Small Magellanic Cloud is that _____.
(A) Both are largest spiral galaxies of Milky Way.
(B) Both are shaped like footballs.
(C) Both have stars orbiting the centre of Milky Way.
(D) Both are irregular companion galaxies of Milky Way.
15. Yuri Gagarin was the first astronomer who landed in space for the first time. Which aircraft he was supposed to be in?
(A) Soyuz 8 (B) Sputnik 6
(C) Vostok 1 (D) Vostok 3
16. The phenomenon of wobbling axis of the Earth in a circle is known as _____.
(A) Nutation (B) Libration
(C) Apparition (D) Precession
17. What is the reason behind meteor showers?



- (A) Moonquakes.
 - (B) Debris left behind by comets.
 - (C) Some asteroids which come close to the Earth.
 - (D) Space rocks entering the Earth.
18. _____ was the first rover that landed on the rocky surface of the moon.
- (A) Chandrayaan-2
 - (B) Lunokhod
 - (C) Gemini Moon rover
 - (D) Soyukhode
19. What is the distance between the centre of the Milky Way galaxy and the Sun?



- (A) 26,000 light years
 - (B) 1,28,00 light years
 - (C) 9,82,200 light years
 - (D) 3,30,000 light years
20. What is the position of Moon during full moon and new moon called?
- (A) Cresnet
 - (B) Syzygy
 - (C) Gibbous
 - (D) Quadrature
21. What is the approximate radius of the universe in billion light years?
- (A) 46
 - (B) 4.6
 - (C) 26
 - (D) 105
22. _____ is the asteroid that appears brightest from the Earth.
- (A) Ceres
 - (B) Gaspra

- (C) Nysa (D) Vesta
23. Sun will finally end up as _____.
- (A) A white dwarf (B) A pulsar
(C) A black hole (D) A black dwarf
24. What is the speed of the earth travelling through space?
- (A) 800 million km/hour (B) 328 million km/hour
(C) 107 million km/hour (D) 100 million km/hour
25. The observed magnitude of a star or celestial object is called its _____.
- (A) Celestial Magnitude (B) Apparent magnitude
(C) Absolute magnitude (D) Star magnitude
26. Which of the following is considered as the birthplace of hundreds of stars and planets?
- (A) Hourglass nebula (B) Orion nebula
(C) Crab nebula (D) Horse-head nebula
27. Pick the correct statement that explains the unusual nature about the orbit of Pluto.
- (A) It is inclined to Neptune's orbit at 5 degrees.
(B) It tilts at an angle of 17 degrees.
(C) It extends till the edge of Solar System.
(D) None of these.
28. What is the composition of the stars?
- (A) Gas and dust clouds (B) All elements
(C) Condensed methane (D) Hydrogen and helium
29. We can observe mercury during _____.
- (A) Partial solar eclipse (B) Total solar eclipse
(C) Total lunar eclipse (D) Partial lunar eclipse
30. Match the Column I with Column II.

Column I	Column II
(p) Edwin Hubble	(i) Theory of relativity
(q) Copernicus	(ii) Geocentrism
(r) Albert Einstein	(iii) Big Bang theory
(s) Ptolemy	(iv) Heliocentrism

- (A) (p)–(iv), (q)–(ii), (r)–(iii), (s)–(i) (B) (p)–(iv), (q)–(i), (r)–(iii), (s)–(ii)
 (C) (p)–(iii), (q)–(iv), (r)–(i), (s)–(ii) (D) (p)–(ii), (q)–(iii), (r)–(iv), (s)–(i)
31. _____ contains the Solar System, including Earth and it is the closest to the sun.
 (A) Perseus Arm (B) Scutum-Centaurus Arm
 (C) Orion-Cygnus Arm (D) None of these
32. On which planet, the Sun appears to rise in west?
 (A) Venus (B) Mars
 (C) Earth (D) Saturn
33. What is the name of the first spacecraft that has visited the planet Mercury?
 (A) Voyager 1 (B) Voyager 2
 (C) Mariner 10 (D) Pioneer 10

Section - C

(This section contains 7 multiple choice questions. Each question has four choices (A), (B), (C) and (D), out of which TWO are correct.)

34. _____ and _____ are not the examples of spiral galaxies.
 (A) Bode's Galaxy (B) Centaurus A
 (C) Messier 32 (D) Triangulum
35. Which of the following statements are CORRECT about Giovanni Cassini?
 (A) Discovery of four moons of Saturn.
 (B) Discovery of Great Red Spot on Jupiter.
 (C) Discovery of first asteroid, Ceres.
 (D) First observed the canals on Mars.
36. _____ and _____ are the planets that have shorter planetary days compared to Earth.

- (A) Mars (B) Mercury
(C) Jupiter (D) Saturn
37. Which of the following features are found on the Mars?
(A) Valles Marineris (B) Aitken Basin
(C) Crater Copernicus (D) Olympus Mons
38. Choose the correct statement about the unit conversions used in the astronomy.
(A) 1 parsec = 3.26 light-years (B) 1 light-year = 3.26 parsecs
(C) 1 parsec = 3.09×10^{14} km (D) 1 light-year = 9.47×10^{12} km
39. _____, a space-research mission sent on the _____ for its study was a collaboration of NASA, ISA and ESA.
(A) Cassini (B) Gemini
(C) Jupiter (D) Saturn
40. _____ and _____ are the well-known examples of comets.
(A) Pulsar (B) Hyakutake
(C) Magnetar (D) Hale Bopp

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