

Hi there – you've prepared well! Remember, knowing the content is one thing, but presenting it in the paper exactly as required is another. Here are a few key points to keep in mind:

1. For a 1-mark part, aim to write at least 2 and at most 3 lines of the answer sheet. Often, a question has two or three parts, and the marks are divided accordingly – so address each part fairly.
2. Manage your time wisely – you have about 35 minutes per full question, which comes down to around 8 minutes for each 5-mark part. Stick to this to avoid rushing later.
3. Make your answer look scientific, not just theoretical. Use flowcharts and diagrams wherever they add clarity.
4. Neatness matters – keep your handwriting clean, avoid cutting or overwriting.
5. Mind your spelling and grammar – while GSA doesn't deduct marks for these, your expression leaves an impression.
6. In the ability portion, explain analytical ability questions in words. For a 5-mark part, show all steps and provide clear explanations.

Qs can

POTENTIAL BENEFITS OF IMPLEMENTING

ARTIFICIAL INTELLIGENCE IN HEALTH-CARE SYSTEM

- i) Artificial Intelligence improves accurate diagnosis, job result and patient records more than human.
- ii) AI can detect the early conditions of chronic diseases like Cardiovascular diseases, Cancer, improving chances of successful treatment.
- iii) AI can reduce human workload by handling administrative tasks like schedule and documentation.
- iv) AI can enhance radiology and pathology with speed and precision unmatched by human.
- v) AI can improve ~~access~~ access into remote areas by bringing telemedicine specialist to far-flung regions.

CHALLENGES OF IMPLEMENTING ARTIFICIAL INTELLIGENCE IN HEALTH-CARE SYSTEM

- i) AI relies on vast amount of sensitive data of patients, raising concerns about its privacy and misuse.
- ii) AI has legal concerns regarding its wrong diagnosis, therefore, it is unclear who take responsibility, doctors, hospital, or software company.
- iii) AI requires large investment in that can may concern that healthcare become expensive.

Good luck for CSS 2026 – you're going to ace it, in sha Allah!



- (iv) It may arise the patient concern, feeling uncomfortable about being diagnosed by a machine.
- (v) Over-dependence on AI can weaken the doctor's diagnostic skill as well as fear of losing their jobs.

IMPACTS OF AI ON PATIENT CARE AND MEDICAL DIAGNOSIS

IMPACT OF AI ON PATIENT

- (i). AI helps patients get quick care and better support.
- (ii) AI assists patients to take medicine and follow their health plan.
- (iii) AI improves its services in poor or remote areas through video virtual checkups and health tracking tools.

IMPACTS ON MEDICAL DIAGNOSIS:-

- (i) AI can assist doctors to diagnosis with accuracy and make better decision.
- (ii) AI can find symptoms of any disease before it become serious.
- (iii) AI can do routine works like appointments, writing reports and maintaining records.

⑥ BIG BANG THEORY

~~Bang~~ Big bang theory was discovered by George Lemaître and further strengthened by Edwin Hubble in 1929. According to this theory that universe, is 13.8 billions years ago, ~~or~~ was ~~origin~~ begun from a single point which was dense and extremely hot called singularity. The point underwent ~~the~~ rapid expansion called Inflation, causing releasing of energy, and creation of Quarks and electrons. Furthermore, these particles combined and formed a nuclei of light elements ~~as~~ like Hydrogen, Helium. These atoms combined and formed stars and this universe, this process is still continue and expanding itself.

EVIDENCES OF BIG BANG THEORY:-

(i) FORMATION AND EVOLUTION OF GALAXIES:-

Galaxies are ^{Significance} ~~observed~~ their distribution in different patterns. ^{Add a diagram to explain it properly} These galaxies are interacting and merging to each other and form new different shapes of galaxies. Hence, this formation provide evidence of existence of Big bang theory.

(ii) RED-SHIFT OF GALAXIES:-

In 1920, Edwin Hubble observed that the velocity at which galaxies move is directly proportional to their distance. They move short

to long wave. When a Galaxy move away, the light wave it emits stretch.

Q.1 (10)

(c)

Primary causes of Global Warming.

(i) Emission of Green House Gases :-

This gas emitted by burning of Fossil Fuels (Oil, Coal, Gas) and Carbon di-oxide, from industries, vehicles etc.

(ii) Deforestation :-

Cutting down of trees reduces that absorb CO_2 , leading to more carbon in the atmosphere.

(iii) Excess Usage of Fertilizers

The excessive usage of fertilizers which emits Nitrous Oxide (N_2O) which become excess leading to global warming.

Effects of Global Warming :-

(i) Rising of Sea-level :-

Due to global warming, the glaciers and ice polar are melting, leading to rise the sea-level.

(ii) Loss of BIODIVERSITY :-

Due many plants and animals unable to adapt to rapid climate change.

because of global warming.

iii. Food and Water insecurity:-

Due to rapid change in weather like draught, heavy rain, etc. affects crops yielding, as well as shortage of water, leading to hunger and conflict.

ROLE OF HUMAN ACTIVITIES IN GLOBAL WARMING

(i) INDUSTRIALIZATION

Factories emit CO_2 , methane and N_2O through use and production process, causing global warming.

(ii) URBANIZATION:-

Expanding ~~more~~ cities requires more land, that reduces global warming.

Q5

Data

80% of students are below 8 age.

48 students have 8 years old.

more above the 8 years old student = $\frac{2}{3}$ rd of 48 students.Solution

80% — below 8 years
 rem 80% — 48 — have 8 years age
 ↳ $\frac{2}{3}$ rd of 48.

Total Number of student who are above 8 years old.

$$\frac{2}{3} \times 48 = \frac{96}{3} = 32$$

32 students have age of 8 above 8 years

: Students having age below 8 years.

80% of student have age equal to 8 years or above 8 years

48 — student having 8 years age
 32 — students having above 8 years
 80

80 remains 80% of student having age are 20% → $20 + 80 = 100$

Hence, the total number of student is 100.

Signature _____

RC

No. _____

(b)

Data

$$F = F + 3R = 4R$$

After 8 years, he would be and half time of Rashid age

$$\left. \begin{aligned} 4R + 8 &= \frac{5}{2} (R + 8) \\ 2(4R + 8) &= 5(R + 8) \end{aligned} \right\}$$

$$8R + 16 = 5R + 40$$

$$3R = 24$$

$$\text{Rashid current age} = 8$$

$$\text{Father Current age} = 4 \times 8 = 32$$

After further 8 years;

$$R + 8 + 8 ; F + 8 + 8$$

$$08 + 16 ; 32 + 16$$

$$\text{Rashid} = 24$$

$$\text{Father} = 48$$

After further 8 years, how many times he would be of Rashid age.

$$\frac{F}{R} = \frac{48}{24} = 2$$

He would be two times of Rashid age.

(c)

Two dice tossed, $\Rightarrow 6 \times 6 = 36$
probability of that the total ^{score} number of
prime number.

possible chance = 2 to 12

let find prime number comes from
dice — 2, 3, 5, 7, 11 $\rightarrow$ 15 possibilities

(1,1) — 2

probability = $\frac{15}{36}$

(1,2) } — 3

(2,1) }

{ (1,4)
(2,3)
(3,2)
(4,1) } — 4

{ (2,5)
(5,2)
(4,3)
(3,4)
(6,1)
(1,6) } — 6

(6,5) — 11

$\frac{5}{6}$ Ans.

d.

Data

$$C = 26 \text{ year}$$

$$Wk = 3 \text{ year older than Captain} = 26 + 3 = 29$$

Average ages of ~~team~~ team.

total age

$$\text{average of whole team} = \frac{29 + 26n}{11}$$

along with C & Wk

$$= \frac{55n}{11}$$

$$\text{Remaining players age average} = \frac{9n}{9}$$

The average of remaining players

$$\frac{55n}{11} = \frac{9n}{9}$$

$$5(55n) = 11n - 55n = 9n - 9$$

$$2n = 5 \Rightarrow$$

$$n = \frac{46}{2}$$

$$n = 23$$

The remaining average age of team is 23.

Q7

(9)

Data

$$A:B = 5:3$$

$$5\% A + 4\% B = \frac{2}{3}(6\% A + 8\% B)$$

$$A:B = ?$$

Date

Solution

$$5\% A + 4\% B = \frac{2}{3}(6\% A + 8\% B)$$

multiply 100 with both side

$$3(5A + 4B) = 2(6A + 8B)$$

$$15A + 12B = 12A + 16B$$

$$15A + 12B = 12A + 16B$$

$$3A = 4B$$

$$\frac{4}{3} = \frac{A}{B} = 4:3$$

The ratio A:B is 4:3

(c)

Data

Sum of money distributed A, B, C, D = 5:2:4:3

C gets 1000^{thru} more than D

Share of B = ?

Solution

Total shares = 1

Find the C's share. suppose share

is x

$$C = 1000 + D = 1$$

$$11 = 1000$$

$$\text{share of C} = 1000$$

$$\text{Now } B = 2 \times 1000$$

B's share is Rs. 2000

Signature _____

RC

No. _____