

## PREVIEW QUESTION BANK

Module Name : cec24-ce01 Earth System Science-ENG  
Exam Date : 18-May-2024 Batch : 15:00-18:00

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	14512001	<p>The Universe is expanding. Expansion of the Universe has been concluded on the basis of what?</p> <ol style="list-style-type: none"> <li>1. Doppler effect</li> <li>2. Big bang</li> <li>3. Hubble telescope</li> <li>4. Twinkling of stars</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
Objective Question				
2	14512002	<p>There exists an Asteroidal Belt between Mars and Jupiter. Around what the Asteroids revolve?</p> <ol style="list-style-type: none"> <li>1. Earth</li> <li>2. Planets</li> <li>3. Sun</li> <li>4. Asteroids do not revolve</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
Objective Question				
3	14512003	<p>What a cloud ball of about 160 million km diameter, which is a mixture of two gases, one of negative electrons repelling each other and another of protons repelling each other is called?</p> <ol style="list-style-type: none"> <li>1. Plasma</li> <li>2. Sun</li> <li>3. Black hole</li> <li>4. Earth</li> </ol> <p>A1 : 1</p>	2.0	0.00

A2 : 2

A3 : 3

A4 : 4

## Objective Question

4	14512004	<p>What the galaxy to which our Solar System belongs is named as?</p> <ol style="list-style-type: none"> <li>1. Milky way</li> <li>2. Andromeda</li> <li>3. Star Galaxy</li> <li>4. Seven Star System</li> </ol>	2.0	0.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

## Objective Question

5	14512005	<p>Which of the following statement is correct? The polar diameter of the Earth is</p> <ol style="list-style-type: none"> <li>1. Equal to the equatorial diameter</li> <li>2. Less than equatorial diameter</li> <li>3. Greater than equatorial diameter</li> <li>4. Equal to Sun's diameter</li> </ol>	2.0	0.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

## Objective Question

6	14512006	<p>The Mass of the Earth cab be calculated By which of the following formula?</p> <ol style="list-style-type: none"> <li>1. <math>F = Gmm/r^2</math></li> <li>2. <math>F = mmr^2/G</math></li> <li>3. <math>F = MM/GR^2</math></li> <li>4. <math>F = Gmmr^2</math></li> </ol>	2.0	0.00
		A1 : 1		
		A2 : 2		

A3 : 3

A4 : 4

## Objective Question

7	14512007	<p>Who proposed the Nebular Hypothesis for the origin of the Earth?</p> <ol style="list-style-type: none"> <li>1. Immanuel Kant</li> <li>2. Victor Sofronov</li> <li>3. Weizecker</li> <li>4. O J Schmidt</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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## Objective Question

8	14512008	<p>The Earth has a magnetic field. Magnetic field protects the Earth from what?</p> <ol style="list-style-type: none"> <li>1. Space radiations, specially solar wind</li> <li>2. Asteroid hits</li> <li>3. Comet hits</li> <li>4. Cyclones</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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## Objective Question

9	14512009	<p>The magnetic axis of the earth from its rotational axis has a tilt of how many degrees?</p> <ol style="list-style-type: none"> <li>1. 23.4 degree</li> <li>2. 11.3 degrees</li> <li>3. It is not a tilted axis</li> <li>4. 45 degrees</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p>	2.0	0.00
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A4 : 4

## Objective Question

10	14512010	<p>What the amount of solar power received by a unit surface perpendicular to the Sun's rays at a mean distance of 1 Astronomical Unit (average distance between the Sun and the Earth, 150 million km) is called?</p> <ol style="list-style-type: none"> <li>1. Solar constant</li> <li>2. Solar minima</li> <li>3. Solar variation</li> <li>4. Solar heat</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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## Objective Question

11	14512011	<p>The outermost sphere of the earth is called Lithosphere, lithosphere floats. Lithosphere floats on which of the following?</p> <ol style="list-style-type: none"> <li>1. Asthenosphere</li> <li>2. Mesosphere</li> <li>3. Siderosphere</li> <li>4. Crust</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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## Objective Question

12	14512012	<p>Who proved that the ocean floor spreads and plunges under the continents (Sea Floor Spreading)?</p> <ol style="list-style-type: none"> <li>1. Runcom</li> <li>2. Harry Hess</li> <li>3. Dan Mckenzie</li> <li>4. Alfred Wegener</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p>	2.0	0.00
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A4 : 4

## Objective Question

13	14512013	<p>If the lithosphere cannot subduct, the change in the spreading rate of the plate will cause a ridge offset or split. What this split is called?</p> <ol style="list-style-type: none"> <li>1. Mid oceanic ridge</li> <li>2. Transform fold</li> <li>3. Transform Fault</li> <li>4. Boundary fault</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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## Objective Question

14	14512014	<p>What the plate margin where subduction, collision or transform faulting occurs is called?</p> <ol style="list-style-type: none"> <li>1. Passive plate margin</li> <li>2. Active plate margin</li> <li>3. Transform fault</li> <li>4. Trench</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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## Objective Question

15	14512015	<p>Changes in the position of sea level relative to the land surface are called</p> <ol style="list-style-type: none"> <li>1. Eustatic changes</li> <li>2. Diastrophism</li> <li>3. Epeirogenic movements</li> <li>4. Orogenic movements</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p>	2.0	0.00
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		A4 : 4		
Objective Question				
16	14512016	<p>The magnitude of the earthquakes is measured on</p> <ol style="list-style-type: none"> <li>1. Richter scale</li> <li>2. Mercalli scale</li> <li>3. Intensity scale</li> <li>4. Compass</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
Objective Question				
17	14512017	<p>What is the velocity of the P waves?</p> <ol style="list-style-type: none"> <li>1. 15 to 25 km/s in the Earth's crust</li> <li>2. 100 to 200/s km in the Earth's crust</li> <li>3. 5 to 7 km/s in the earth's crust</li> <li>4. They do not move on the Earth's crust</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
Objective Question				
18	14512018	<p>The world's earthquake belt where about 80% of the world's largest earthquakes (magnitude 8 and above) occur is called as</p> <ol style="list-style-type: none"> <li>1. Circum-pacific seismic belt</li> <li>2. Alpine-Himalayan seismic belt</li> <li>3. Zone V of India</li> <li>4. Mid-Atlantic Ridge seismic belt</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p>	2.0	0.00

		A4 : 4		
Objective Question				
19	14512019	<p>If the volcanic explosion is very powerful, a mass of hot gases and pyroclastics rises above the volcano. What this mass is called as?</p> <ol style="list-style-type: none"> <li>1. Nuee-ardente</li> <li>2. Lahar</li> <li>3. Geyser</li> <li>4. Fumarole</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
Objective Question				
20	14512020	<p>Which of the following is an active volcano in India?</p> <ol style="list-style-type: none"> <li>1. Kabaratti</li> <li>2. Sylvasa</li> <li>3. Barren Island in Andaman Islands</li> <li>4. Lakshadweep</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
Objective Question				
21	14512021	<p>Ocean circulations are also driven by differences in temperature and salinity. What are they called?</p> <ol style="list-style-type: none"> <li>1. Ocean gyres</li> <li>2. Thermohaline circulations</li> <li>3. Thermocline</li> <li>4. Ekman layer</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00

## Objective Question

22	14512022	<p>What the process in which the fragments chipped away from cliffs get further eroded or worn down by impact and friction is called?</p> <ol style="list-style-type: none"><li>1. Hydraulic action</li><li>2. Corrasion</li><li>3. Corrosion</li><li>4. Attrition</li></ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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## Objective Question

23	14512023	<p>What do you call the erosion by chemical and solvent action, which is more effective on limestone coasts?</p> <ol style="list-style-type: none"><li>1. Hydraulic action</li><li>2. Corrasion</li><li>3. Corrosion</li><li>4. Attrition</li></ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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## Objective Question



24	14512024	<p>The deflection of air to the right in northern hemisphere and to the left in southern hemisphere is called</p> <ol style="list-style-type: none"> <li>1. Coriolis effect</li> <li>2. Coriolis Force</li> <li>3. Jet stream</li> <li>4. Troposphere</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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## Objective Question

25	14512025	<p>UV solar radiation while entering the Earth are absorbed and converted by which of the following?</p> <ol style="list-style-type: none"> <li>1. Ozone molecules present in the stratosphere</li> <li>2. Ozone molecules present in the troposphere</li> <li>3. Carbon dioxide present in the stratosphere</li> <li>4. Oxygen present in the atmosphere</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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## Objective Question

26	14512026	<p>What is saturated water vapour?.. Saturated water vapour is Number of molecules that evaporate</p> <ol style="list-style-type: none"> <li>1. is equal to the number of molecules that condense (return to liquid)</li> <li>2. is greater than the number of molecules that condense (return to liquid)</li> <li>3. is less than the number of molecules that condense (return to liquid)</li> <li>4. is far greater than the number of molecules that condense (return to liquid)</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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## Objective Question

27	14512027		2.0	0.00
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ALBEDO is a ratio of the amount of radiation reflected to the radiation that hits the surface. Mark the correct statement

1. White object have high albedo while dark object have low albedo and oceans also have low albedo
2. White object have low albedo while dark object have high albido
3. White object have high albedo and dark object also have low albedo
4. Oceans have high albedo

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

28 14512028

What is the source of the Earth's internal heat?

1. Residual heat of accumulation, continued trickling of heavy metals through the mantle into the core and Radioactive decay of long-lived radioactive isotopes
2. Residual heat of accumulation and continued trickling of heavy metals through the mantle into the core but Radioactive decay of long-lived radioactive isotopes do not contribute as source of heat.
3. Continued trickling of heavy metals through the mantle into the core and Radioactive decay of long-lived radioactive isotopes but there is no residual accumulated heat.
4. Earth does not have any internal heat.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

2.0 0.00

Objective Question

29 14512029

What do we call the fine weathered product on the surface of the Mars and Moon?

1. Soil
2. Regolith
3. Pedalfer
4. Pedocal

A1 : 1

A2 : 2

A3 : 3

A4 : 4

2.0 0.00

Objective Question

30	14512030	<p>What the soil formed in warm and dry climate is called as?</p> <ol style="list-style-type: none"> <li>1. Pedalfer</li> <li>2. Pedocal</li> <li>3. Laterite</li> <li>4. Regolith</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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## Objective Question

31	14512031	<p>Deccan basalts have generated Black Cotton Soil (Regur). Regur has high percentage of</p> <ol style="list-style-type: none"> <li>1. Aluminium and silicon and is not very fertile</li> <li>2. Calcium and magnesium oxides and is highly fertile</li> <li>3. Peat and humus but is not fertile</li> <li>4. Aluminium and silicon and iron and is not very fertile</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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## Objective Question

32	14512032	<p>Marly soil is clayey soil containing good quantity of what of the following</p> <ol style="list-style-type: none"> <li>1. Limestone</li> <li>2. Laterite</li> <li>3. Nematods</li> <li>4. Aluminium oxide</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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## Objective Question

33	14512033		2.0	0.00
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Who established the Principle of Superposition?

1. James Hutton
2. Charles Lyell
3. Nicolaus Steno
4. William Smith

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

34	14512034	Sedimentary strata unconformably overlying igneous rock is which type of unconformity?  1. Nonconformity 2. Disconformity 3. Paraconformity 4. Angular unconformity	2.0	0.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

35	14512035	Animals with exoskeleton appeared during which of the following?  1. Cambrian 2. Ordovician 3. Silurian 4. Devonian	2.0	0.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

36	14512036		2.0	0.00
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What is the age of the extinction of Dinosaurs?

1. 200 Ma
2. 65 Ma
3. 1000 Ma
4. Dinosaurs are still living

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

37	14512037	<p>In which of the following the peaks of Nanga Parbat, Nun-Kun, Kedarnath, Badrinath, Nanda Devi, Kanchanjanga, Everest (Sagarmatha) are located?</p> <ol style="list-style-type: none"> <li>1. The Himadri or Great Himalaya</li> <li>2. The Siwalik</li> <li>3. The Tethys Himalaya</li> <li>4. The Himachal or Lesser Himalaya</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

38	14512038	<p>At the close of the Mesozoic, one of the greatest volcanic eruptions in earth's history occurred. What did this form?</p> <ol style="list-style-type: none"> <li>1. The Deccan lava flows</li> <li>2. The Malani Igneous lava flows</li> <li>3. The Dharwar lava flows</li> <li>4. Visuvius lava flows</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

39	14512039		2.0	0.00
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		<p>Aravalli Mountain range formed in a mountain building activity (Orogen) during which of the following?</p> <ol style="list-style-type: none"> <li>1. Proterozoic</li> <li>2. Hadean</li> <li>3. Phanerozoic</li> <li>4. Tertiary</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>		
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Objective Question

40	14512040	<p>The Dharwar Supergroup of rocks are enriched in manganese and iron ore and are also mineralized with</p> <ol style="list-style-type: none"> <li>1. Gold</li> <li>2. Phosphate</li> <li>3. Nickel</li> <li>4. Sulphur</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

41	14512041	<p>Stromatolitic rock phosphate deposit occurs in which of the following</p> <ol style="list-style-type: none"> <li>1. Lower Aravalli group</li> <li>2. Tertiary</li> <li>3. Great Boundary Fault</li> <li>4. Hadean</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

42	14512042		2.0	0.00
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The Cenozoic is also known as

1. The Age of Dinosaurs
2. The age of ammonites
3. The age of mammals
4. The ae of trilobites

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

43	14512043	<p>Quaternary sand deposits along the coastal tracts of Kerala and Tamil Nadu</p> <ol style="list-style-type: none"> <li>1. Are economically exploitable for ilmenite, rutile, zircon and monazite</li> <li>2. Are economically exploitable for Lead and zinc</li> <li>3. Are economically exploitable for copper</li> <li>4. Are not economically exploitable</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

44	14512044	<p>What is the composition of the Sun?</p> <ol style="list-style-type: none"> <li>1. 91% Hydrogen, 8.9% helium and 0.1% 67 other elements</li> <li>2. Only hydrogen and Helium 100%</li> <li>3. Only helium 100%</li> <li>4. Sun is not containing any elements</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

45	14512045		2.0	0.00
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The planet Venus is very similar to the earth suggests that it has structure and composition very similar to the earth. What kind of atmosphere is there on Venus?

1. The dense atmosphere of Venus is consisted of of Carbon Dioxide, Nitrogen, and Sulphuric Acid
2. Venus has same atmosphere as that of the Earth
3. Venus has no atmosphere
4. In the atmosphere of Venus, Hydrogen is present in the form of Methane and Ammonia

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

46	14512046	<p>Why Gold and Platinum do not occur freely or are not abundant on the surface of the Earth?</p> <ol style="list-style-type: none"> <li>1. They readily alloy with iron and have no tendency to form oxides or silicates</li> <li>2. They are strongly electropositive</li> <li>3. They are strongly electronegative</li> <li>4. People steal them</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

47	14512047	<p>The division of the Earth into shells of different density or composition or different chemical and mineral environment is called</p> <ol style="list-style-type: none"> <li>1. Geochemical differentiation</li> <li>2. Geochemical cycle</li> <li>3. Isotope fractionation</li> <li>4. Isobar fractionation</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

48	14512048		2.0	0.00
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The atoms, in the form of various molecules, migrate continually between the different reservoirs of the Earth system. What do we call the movement of earth materials from one environment to another?

1. Geochemical differentiation
2. Geochemical cycle
3. Crust, mantle core
4. Isotope fractionation

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

49 14512049

The radioactive heat generated within the Earth's crust is from which of the following?

1. Sedimentary rocks
2. Metamorphic rocks
3. Granites
4. Marbles

A1 : 1

A2 : 2

A3 : 3

A4 : 4

2.0 0.00

Objective Question

50 14512050

What do we call those elements that have affinity for silicates?

1. Siderophiles
2. Chalcophiles
3. Lithophiles
4. Atmophiles

A1 : 1

A2 : 2

A3 : 3

A4 : 4

2.0 0.00