

- (OM1) Mark any 5 (five) of the following stars on the map by putting a circle (O) around the appropriate star and writing its code next to it. If you mark more than 5 stars, only the first 5, in the order from the list below, will be considered. 20

Code	Name	Bayer Name
S1	Caph	β Cas
S2	Asellus Australis	δ Cnc
S3	Acrux	α Cru
S4	Alphard	α Hya

Code	Name	Bayer Name
S5	Sheliak	β Lyr
S6	Albireo	β Cyg
S7	Rasalhague	α Oph
S8	Kaus Australis	ϵ Sgr

- (OM2) Mark the location of any 3 (three) of the following galaxies on the map by putting a '+' sign at the appropriate place on the map and write its code next to it. If you mark more than 3 galaxies, only the first 3, in the order from the list below, will be considered. 15

Code	Name	M number
G1	Triangulum Galaxy	M 33
G2	Whirlpool Galaxy	M 51
G3	Southern Pinwheel Galaxy	M 83

Code	Name	M number
G4	Virgo A	M 87
G5	Sombrero Galaxy	M 104

- (OM3) Draw the ecliptic on the map and label it as 'E'. 5
- (OM4) Show the position of Autumnal Equinox (the descending node of the ecliptic) on the map by a '+' sign and label it 'A'. 5
- (OM5) Draw the local meridian for Bhubaneswar at Winter Solstice (22nd December) at local midnight and label it 'M'. 5