Observational Examination (OM)

(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 serial order 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 location of any 3 (three) of the following galaxies on the map by putting a '+' sign at appropriate place in the map and writing its code next to it. If you mark more than 3 galaxies, only the first 3 in serial order 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 ecliptic on the map and label it as 'E'. **5**

(OM4) Show position of Autumnal Equinox (descending node of the ecliptic) on the map by a '+' sign and label it as 'A'. **5**

(OM5) Draw local meridian for Bhubaneswar on Winter Solstice day (22nd December) at local midnight and label it as 'M'. **5**