

Model question for Teacher Service Commission

Secondary Mathematics

Attempt all the questions.

Part (A) Curriculum, Pedagogy and Technology in Secondary Level

Short questions 5 * 6 = 30

Q.No. 1. State the problem and issues of Mathematics Education. How do you overcome those problems as a good secondary level mathematics teacher? 2 + 3

Q.No.2. what is constructivist theory in teaching and learning mathematics? How this theory is better than other learning theory? Give your views. 5

Q.No.3. what is ICT in education? How can you teach mathematics effectively by using ICT? Write with example. 1 + 4

Q.No. 4. Why it is important to use low cost and no cost materials in school? Classify the teaching materials and write the method of using any one of them in teaching Geometry. 2 + 3

Q.No. 5. How do you differentiate Assessment from examination? How do you utilize diagnostic test and remedial teaching in your classroom? 1.5 + 3.5 = 5

Q.No. 6. Define vector with example. How do you teach a theorem "An angle formed at half circle is right angle." to prove vectorially? 1 + 4

Long Question 1 * 10 = 10

Q.No. 7. Teacher's Professional Development is a hot cake in present days. Since many years, government has spent lot of resources in teacher training. Researches show that trained teacher could not reflect their skill in the classroom. This is proved from SLC result also. What are the weaknesses of TPD program of present days in Nepal? Suggest a TPD model to improve teacher's professional development to promote the quality of education in Mathematics. 5 + 5